



Serving the People of California

---

# PROJECTIONS OF EMPLOYMENT 1990-1997

By Industry and Occupation



## Fresno Metropolitan Statistical Area (Fresno County)

Prepared by Labor Market Information Division

---

Employment Development Department



**Pete Wilson**  
**Governor**  
**STATE OF CALIFORNIA**

**Russell S. Gould**  
**Secretary**  
**HEALTH AND WELFARE AGENCY**

**Thomas P. Nagle**  
**Director**  
**EMPLOYMENT DEVELOPMENT DEPARTMENT**



## **IMPORTANT**

*If you wish to continue to receive this publication, please complete and return this self-addressed page within 30 days. **TAPE ONLY (NO STAPLES)***

To ensure that our information is correct, please print your name and mailing address in the space below.

-----  
*SECOND FOLD*  
-----

**State of California  
Employment Development Department  
P.O. Box 826880  
Sacramento, CA 94280-0001**

Post Office Will Not Deliver Without Postage
--


**STATE OF CALIFORNIA  
EMPLOYMENT DEVELOPMENT DEPARTMENT  
ATTN: OIG, MIC 57  
P.O. BOX 826880  
SACRAMENTO, CA 94280-0001**

-----  
*FIRST FOLD*  
-----

### **FRESNO PROJECTIONS OF EMPLOYMENT 1990 - 1997**

Name, Title:  
Organization:  
Address/P.O.:  
City, State, Zip:  
Phone:

CALIF STATE UNIV-BERKELEY  
INST OF GOVT STUDIES  
LIBRARY  
109 MOSES HALL  
BERKELEY CA 94720



Digitized by the Internet Archive  
in 2025 with funding from  
State of California and California State Library

<https://archive.org/details/C124921500>

# **PROJECTIONS OF EMPLOYMENT by Industry and Occupation 1990 - 1997**

## **FRESNO COUNTY**

**For additional information contact:  
SOUTHERN AREA INFORMATION GROUP  
300 South Spring Street, Rm 8705  
Los Angeles, CA. 90013-1230  
(213) 897-6850**

**State of California  
Employment Development Department  
Labor Market Information Division**





## TABLE OF CONTENTS

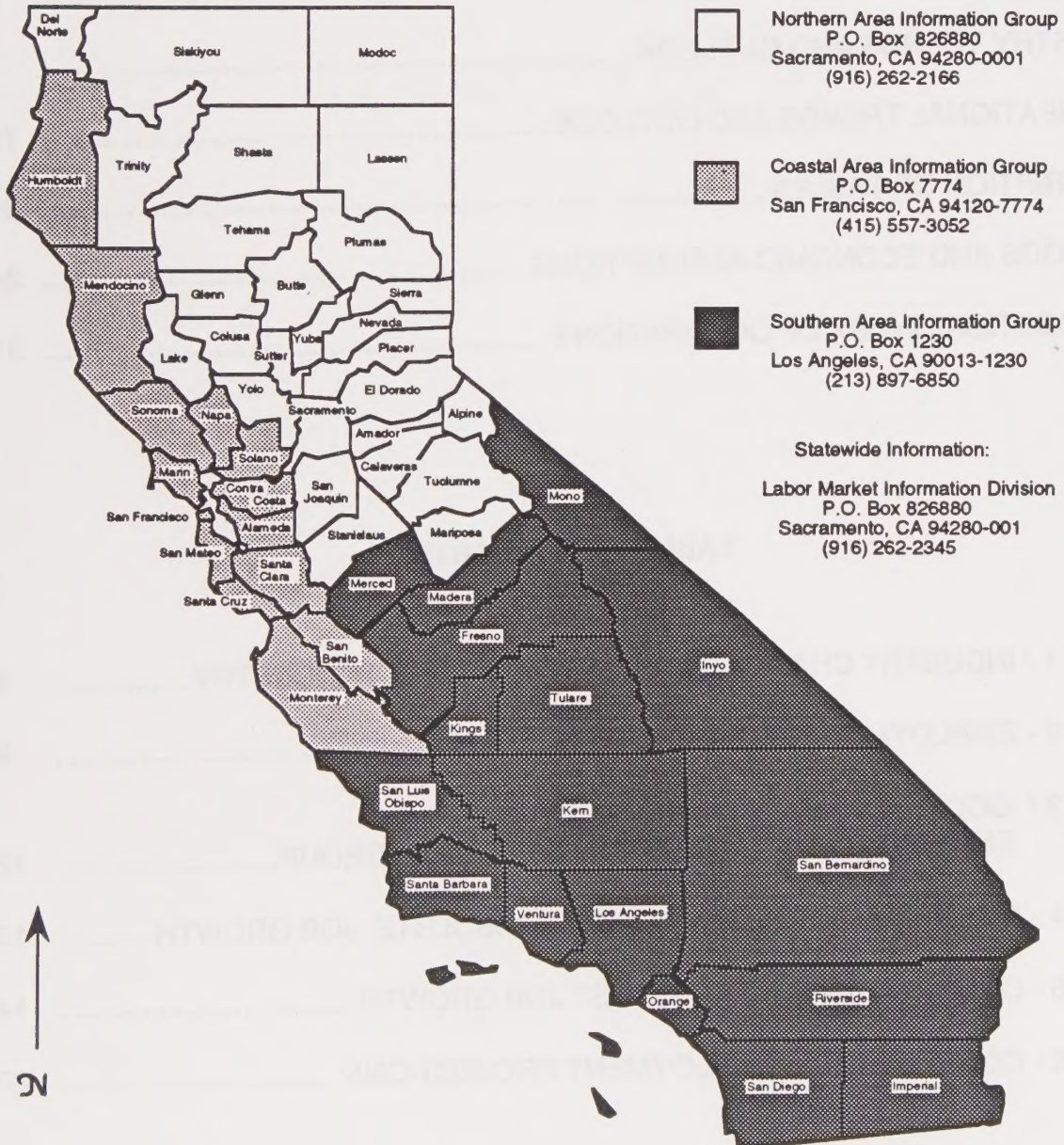
INTRODUCTION .....	1
COUNTY MAP .....	2
AREA PROFILE .....	3
INDUSTRY TRENDS AND OUTLOOK .....	7
OCCUPATIONAL TRENDS AND OUTLOOK .....	15
DESCRIPTION OF TABLES .....	31
METHODS AND ECONOMIC ASSUMPTIONS .....	34
ALPHABETICAL INDEX OF OCCUPATIONS .....	37

## TABLES AND CHARTS

TABLE 1 / INDUSTRY CHART - EMPLOYMENT BY MAJOR INDUSTRY.....	6
TABLE 2 - EMPLOYMENT BY INDUSTRY .....	9
TABLE 3 / OCCUPATIONAL CHART - EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP.....	12
TABLE 4 - OCCUPATIONS WITH GREATEST ABSOLUTE JOB GROWTH .....	13
TABLE 5 - OCCUPATIONS WITH FASTEST JOB GROWTH.....	14
TABLE 6 - OCCUPATIONAL EMPLOYMENT PROJECTIONS .....	20

# EMPLOYMENT DEVELOPMENT DEPARTMENT LABOR MARKET INFORMATION DIVISION AREA INFORMATION GROUPS

This state map provides the address and phone number of the labor market information office for each county and the state.





## INTRODUCTION

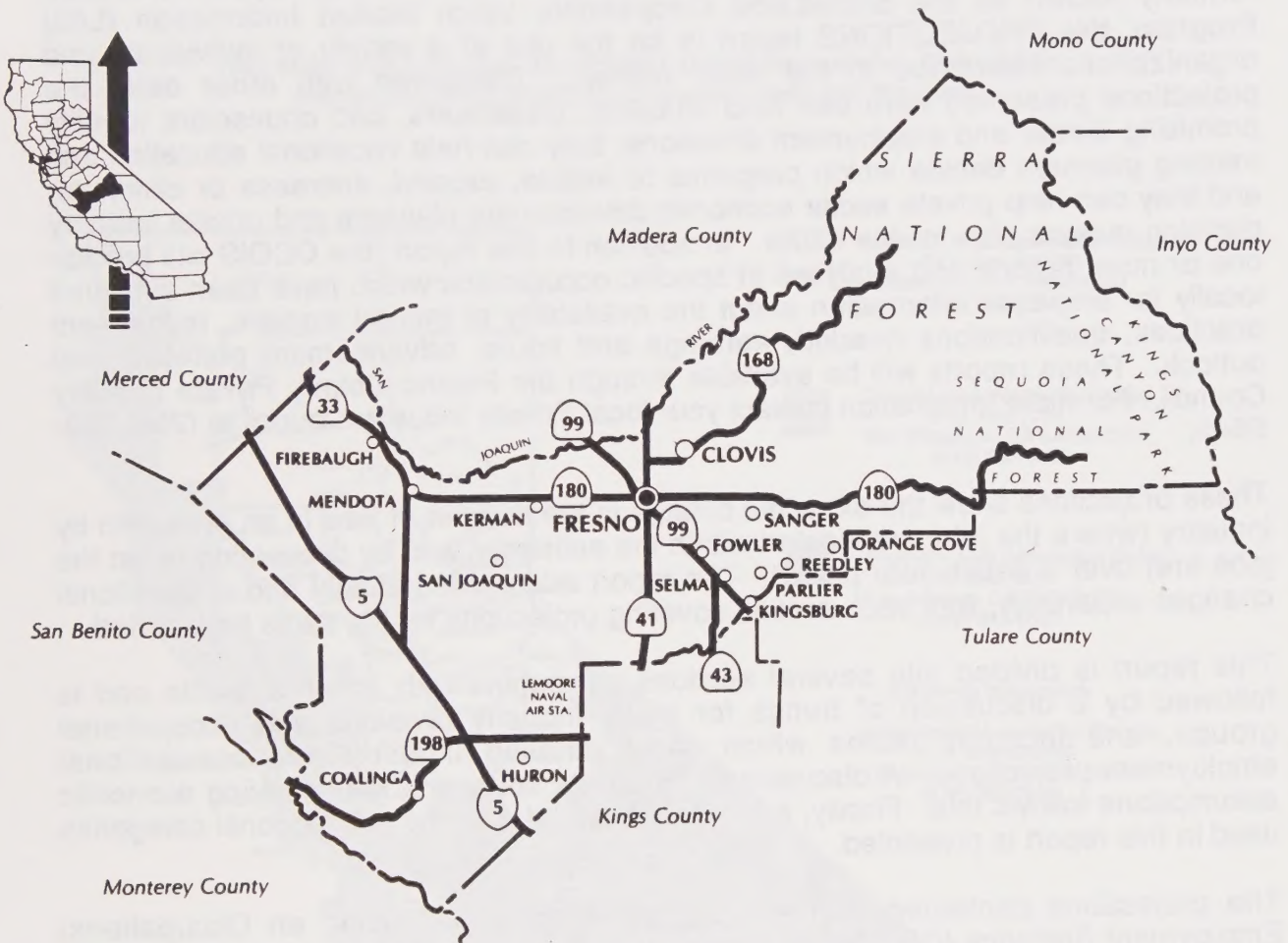
As a product of the California Cooperative Occupational Information System (CCOIS), formerly known as the State/Local Cooperative Labor Market Information (LMI) Program, this PROJECTIONS report is for the use of a variety of individuals and organizations interested in the labor market. Combined with other data, the projections presented here can help students, jobseekers, and counselors identify promising career and employment directions; they can help vocational education and training planners decide which programs to initiate, expand, decrease or eliminate; and they can help private sector economic development planners and private industry decision makers plan for the future. In addition to this report, the CCOIS will provide one or more reports and analyses of specific occupations which have been surveyed locally for employer information about the availability of trained workers, recruitment practices, qualifications needed, earnings and hours, advancement patterns, and outlook. These reports will be available through the Fresno County Private Industry Council. For more information contact your local Private Industry Council at (209) 233-6649.

These projections show the expected change in the number of jobs in an area both by industry (where the jobs are located within the economy) and by occupation (what the jobs are) over a seven-year period. The report addresses industry and occupational changes separately, with each section covering projections for the same time period.

This report is divided into several sections. It begins with an area profile and is followed by a discussion of trends for major industry divisions and occupational groups, and includes tables which show detailed industry and occupational employment projections. A discussion of the data sources and underlying economic assumptions follows this. Finally, an alphabetical index of the occupational categories used in this report is presented.

The projections contained in this report were developed using an Occupational Employment Statistics (OES) survey-based industry-occupational matrix system. The report includes wage and salary employment, but does not include self-employment or agricultural employment, with the exception of selected agricultural services. For a more detailed description of the methods and data sources used in this report, see the Methods and Economic Assumptions section.

# FRESNO COUNTY





## **AREA PROFILE**

### **FRESNO COUNTY**

The Fresno Metropolitan Statistical Area (MSA) encompasses all of Fresno County. Fresno is California's fifth-largest county, covering approximately 6,000 square miles. According to California Department of Finance estimates it is ranked eleventh in population in the State, with 713,700 residents as of January 1, 1992. The San Joaquin Valley crosses the county on a northwest to southeast diagonal. The county is bordered on the west by the Diablo Mountain Range, on the north by the San Joaquin River, and on the east by the Sierra-Nevada Mountains. The elevation ranges from 110 feet in the valley to approximately 14,000 feet in the mountains. The summers are hot with little precipitation, and the average annual rainfall is about 10 inches. Summer temperatures range from 65 to over 100 degrees Fahrenheit. Cool, sometimes foggy winters average 37-54 degrees Fahrenheit. The population's ethnic composition is roughly 50 percent white, 36 percent Hispanic, 8 percent Asian, and 5 percent black.

Fresno County is the nation's number one farm county with a gross crop value exceeding 2.9 billion dollars and an annual average agricultural employment of 48,400 workers in 1991. Over one-third of the county's acreage is served by one of the most elaborate irrigation systems in the world. The county's leading crop in 1991 was grapes. Other leading crops included cotton, tomatoes, cattle and calves, turkeys, milk, head lettuce, plums, peaches, nectarines, and the nation's largest fig orchards. Extensive cattle and sheep ranches occupy the southwestern portion of the county. While agriculture provides the county's financial base, Fresno has a broad range of industries.

Fresno County is the financial, trade, commercial, and educational center for many counties in central California and is the hub of transportation facilities connecting central California to all parts of the country. The county is located in the geographic center of the State between the two major industrial centers of San Francisco and Los Angeles. Two major north-south highways, State Highway 99 and Interstate 5, pass through the county. State highway 180 runs east and west, and two railroads serve Fresno with extensive freight terminal facilities. There is also a railroad which provides passenger service. Two municipal airports provide the city of Fresno with facilities for both private and commercial aviation, with a number of commercial carriers providing service to the rest of California and several western cities. Local, interstate, and intrastate bus lines service the Fresno area. There are also numerous trucking companies which transport goods to, from, and within the county. Within the City of Fresno, there are six general hospitals and a number of schools, including a junior college and a state university.

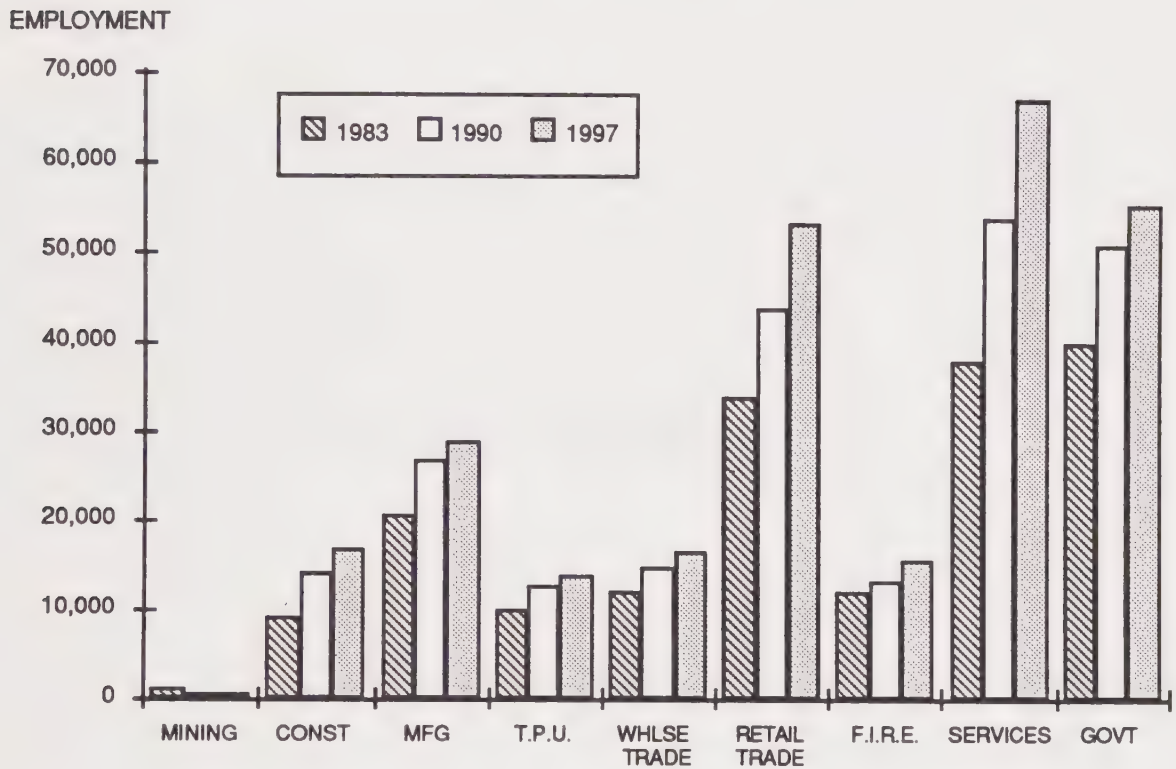
Fresno is the gateway to several well known national parks, including Yosemite, Sequoia, and Kings Canyon. Parts of Sierra National Forest as well as Shaver and Huntington Lakes provide numerous opportunities for hiking, horseback riding, fishing, white water rafting, rock climbing, and snow-skiing.





## INDUSTRY TRENDS

**INDUSTRY CHART**  
**EMPLOYMENT BY MAJOR INDUSTRY**  
**FRESNO COUNTY 1983 - 1990 - 1997**



**INDUSTRY TABLE 1**  
**EMPLOYMENT BY MAJOR INDUSTRY (1)**  
**FRESNO COUNTY 1983 - 1990 - 1997**

INDUSTRY TITLE	1983 EMPLOYMENT	% OF TOTAL	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>TOTAL, NONAGRICULTURAL</b>	176,100	100.0%	229,400	100.0%	266,600	100.0%
<b>MINING</b>	1,000	0.6%	600	0.3%	700	0.3%
<b>CONSTRUCTION</b>	9,100	5.2%	14,200	6.2%	16,600	6.2%
<b>MANUFACTURING</b>	20,500	11.6%	26,400	11.6%	28,600	10.7%
<b>TRANSPORTATION &amp; PUBLIC UTILITIES</b>	9,900	5.6%	12,400	5.4%	13,900	5.2%
<b>WHOLESALE TRADE</b>	12,100	6.9%	14,700	6.4%	16,400	6.1%
<b>RETAIL TRADE</b>	33,700	19.1%	43,700	19.0%	53,000	19.9%
<b>FINANCE, INSURANCE, &amp; REAL ESTATE</b>	12,000	6.8%	13,100	5.7%	15,500	5.8%
<b>SERVICES</b>	37,900	21.5%	53,500	23.3%	66,800	25.0%
<b>GOVERNMENT (2)</b>	39,800	22.6%	50,700	22.1%	55,100	20.7%

1/ March 1991 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

2/ Includes all civilian government employees regardless of the activities in which they are engaged.



## INDUSTRY TRENDS AND OUTLOOK

The current recession affecting the national and state economies, which began in July 1990, has continued longer than expected. Slow growth is anticipated to continue at least through early 1993. When the national economy stabilizes and consumer confidence rises, consumer spending will no doubt fuel the recovery. Together with this spending, lower short- and long-term interest rates are expected to stimulate a sustained recovery in the U.S., California, and Fresno County.

Total nonagricultural wage and salary employment in Fresno County is projected to increase from 229,400 in 1990 to 266,600 in 1997. This is an increase of 37,200 jobs, or 16.2 percent over the seven year period. Changes in employment within industry divisions, major groups, and industry groups translate into growth for all nonagricultural industries' employment between 1990 and the projection year of 1997. The rate of wage and salary employment growth in the county will most likely continue to be affected by several events, in addition to the prolonged and tenacious national recession. These include a sixth year of state drought, and to a lesser extent, freezing temperatures in December 1990.

**Construction** employment has recovered quite well from the 1982 recession low of 8,100 employed. In the nine years from 1982 to 1990, employment improved approximately 75 percent from 8,100 to 14,200 jobs. This growth pattern is expected to slow, with an expected 16.9 percent change from 1990 to 1997. Construction employment is likely to expand by 2,400, for a total of 16,600 workers in 1997. This increase is predicated on a slowly growing local economy, with continued population growth. Fresno's construction industry sector is composed of three groups. The largest of these is the special trade contractors group. Occupations within this grouping include plumbers, electricians, carpenters, and related craft workers. The general building contractors group includes those who construct residential, farm, industrial, and commercial structures and is the next largest group. Finally, heavy construction workers build and provide maintenance and repairs to highways, bridges, and irrigation projects.

From 1980 to 1991, the total number of **manufacturing** jobs has increased 11.5 percent. In all likelihood, the relatively slow growth in this division stems from the national recession of the early 1980's. Manufacturing is composed of both nondurable and durable goods segments. Historically, the nondurable segment has included more workers than the durable, and the largest nondurable goods group is food and kindred products. Typically, the two largest-employing durable goods groups are industrial machinery products and fabricated metal products. Total manufacturing employment in Fresno County is forecast to increase by 8.3 percent, to 28,600 jobs, during the projection period.

**Retail trade** is Fresno's third largest nonagricultural industry. The three largest groups within this industry division are expected to be eating and drinking establishments, food stores and general merchandise stores. Retail trade employment is expected to advance by 9,300 jobs, or 21.3 percent, between 1990 and the end of 1997. This industry division is forecast to have 53,000 workers on its payrolls by 1997.

The **services** industry division continues to contain the largest number of nonagricultural wage and salary jobs in the county. In terms of job growth, the services division may slow its rate of growth, but still remain among the fastest growing industry divisions. The total number of services industry jobs grew 48.6 percent from 36,000 in 1980, to 53,500 in 1990. Total nonagricultural employment increased 21.9 percent during the same decade. The health services group typically accounts for the largest group of services industry workers. Another large services group is business services, including advertising, credit reporting, mailing, computer programming, data processing, and help supply services. Automobile and miscellaneous repair and social services are also relatively large groups within the services industry division. Social services includes those establishments which provide social and rehabilitative services to persons with personal problems as well as the handicapped and disadvantaged. The services industry division will likely continue as the largest provider of new jobs between 1990 and 1997, with employment expected to grow by 24.9 percent (13,300 jobs).

The **government** industry division contained the second largest number of nonagricultural jobs in Fresno County during 1990. Typically, the local education sub-segment (public schools and community colleges) accounts for the largest number of the government division's jobs. The Federal government segment comprises the next largest share of government jobs. The biggest federal employer in the county is the United States Department of the Treasury, Internal Revenue Service (IRS). In addition, county special districts' workers are involved in irrigation, mosquito abatement, public cemeteries, and water supply and conservation. The number of all Fresno government jobs is forecast to increase slightly between 1990 and 1997 with employment growth moving ahead about 8.7 percent in this period. By the end of 1997, total government work rosters are expected to reach a record high of 55,100.



**TABLE 2**  
**EMPLOYMENT BY INDUSTRY (1)**  
1990 ANNUAL AVERAGE AND 1997 PROJECTED EMPLOYMENT  
**FRESNO COUNTY**

INDUSTRY TITLE	SIC	1990	1997	ABSOLUTE CHANGE	PERCENT CHANGE
<b>TOTAL NONAGRICULTURAL</b>		<b>229,400</b>	<b>266,600</b>	<b>37,200</b>	<b>16.2%</b>
<b>MINING</b>	<b>10-14</b>	<b>600</b>	<b>700</b>	<b>100</b>	<b>16.7%</b>
<b>CONSTRUCTION</b>	<b>15-17</b>	<b>14,200</b>	<b>16,600</b>	<b>2,400</b>	<b>16.9%</b>
GENERAL BUILDING CONTRACTORS	15	3,800	4,300	500	13.2%
GENERAL CONTRACTORS, EXC BLDG	16	1,400	1,500	100	7.1%
SPECIAL TRADE CONTRACTORS	17	9,000	10,800	1,800	20.0%
<b>MANUFACTURING</b>	<b>20-39</b>	<b>26,400</b>	<b>28,600</b>	<b>2,200</b>	<b>8.3%</b>
DURABLE GOODS MANUFACTURING	24-25, 32-39	10,900	11,800	900	8.3%
STONE, CLAY, & GLASS	32	1,500	1,500	0	0.0%
PRIMARY & FABRICATED METALS	33-34	2,500	2,600	100	4.0%
MACHINERY & COMPUTER EQUIP	35	2,900	2,900	0	0.0%
TRANSP EQUIP	37	1,200	1,600	400	33.3%
OTHER DURABLE GOODS	24, 25, 36, 38-39	2,900	3,200	300	10.3%
LUMBER, WOOD, FURNITURE	24-25	1,500	1,600	100	6.7%
RESIDUAL DURABLE GOODS	36, 38-39	1,400	1,600	200	14.3%
NONDURABLE GOODS MANUFACTURING	20-23, 26-31	15,600	16,800	1,200	7.7%
FOOD & KINDRED PROD	20	10,500	11,000	500	4.8%
PRESERVED FRUITS & VEGET	203	4,500	4,600	100	2.2%
BEVERAGES	208	1,100	1,100	0	0.0%
OTHER FOOD & KINDRED		4,900	5,300	400	8.2%
OTHER NONDURABLE GOODS	22, 23, 26-31	5,100	5,800	700	13.7%
PAPER, PRINTING & PUBLISHING	26, 27	3,100	3,400	300	9.7%
RESIDUAL NONDURABLE GOODS	22, 23, 28-31	2,000	2,400	400	20.0%
<b>TRANSPORTATION &amp; PUBLIC UTILITIES</b>	<b>40-49</b>	<b>12,400</b>	<b>13,900</b>	<b>1,500</b>	<b>12.1%</b>
TRANSPORTATION	40-42, 44-47	7,400	8,100	700	9.5%
TRUCKING & WAREHOUSING	42	4,400	4,400	0	0.0%
OTHER TRANSPORTATION	40, 41, 44-47	3,000	3,700	700	23.3%
COMMUNICATIONS & UTILITIES	48-49	5,100	5,800	700	13.7%
COMMUNICATIONS	48	2,500	2,600	100	4.0%
UTILITIES & SANITARY SERVICES	49	2,600	3,200	600	23.1%
<b>WHOLESALE TRADE</b>	<b>50-51</b>	<b>14,700</b>	<b>16,400</b>	<b>1,700</b>	<b>11.6%</b>
DURABLE GOODS	50	7,500	8,000	500	6.7%
NONDURABLE GOODS	51	7,200	8,400	1,200	16.7%
<b>RETAIL TRADE</b>	<b>52-59</b>	<b>43,700</b>	<b>53,000</b>	<b>9,300</b>	<b>21.3%</b>
BLDG MAT, GARD SUP, MOB HOMES	52	2,100	2,500	400	19.0%

1/ March 1991 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

2/ Includes all civilian government employees regardless of the activities in which they are engaged.



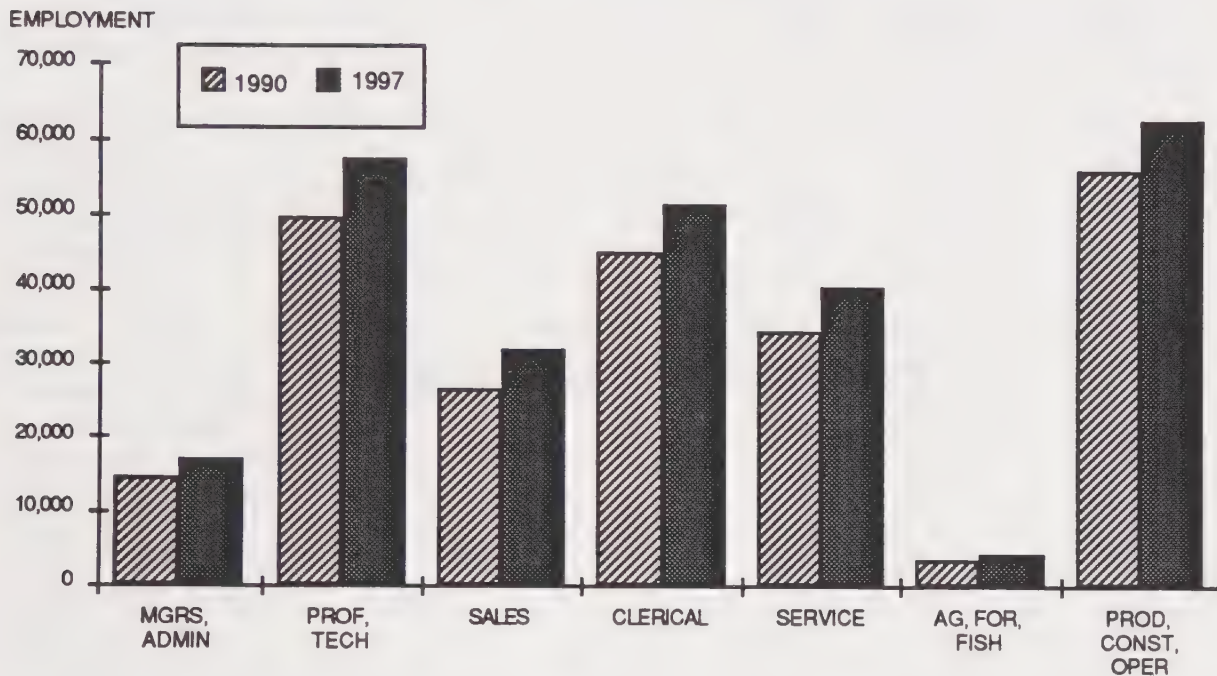
RETAIL TRADE, GEN MERCHANDISE	53	5,900	7,200	1,300	22.0%
FOOD STORES	54	7,000	8,800	1,800	25.7%
OTHER RETAIL TRADE	55-59	30,800	37,000	6,200	20.1%
AUTOMOBILE & RECREAT. VEHICLES	55	5,000	5,500	500	10.0%
APPAREL & ACCESSORIES STORES	56	1,700	2,400	700	41.2%
FURNITURE & HOME FURNI STORES	57	2,000	2,400	400	20.0%
EATING & DRINKING ESTABLISH	58	14,500	17,700	3,200	22.1%
MISCELLANEOUS RETAIL STORES	59	5,500	6,500	1,000	18.2%
<b>FINANCE, INSURANCE, &amp; REAL ESTATE</b>	<b>60-67</b>	<b>13,100</b>	<b>15,500</b>	<b>2,400</b>	<b>18.3%</b>
FINANCE	60-62, 67	6,000	7,000	1,000	16.7%
OTHER FINANCE, INS & REAL ESTATE	63-65	7,200	8,500	1,300	18.1%
INS CARR, AGNTS & BROKERS	63-64	4,400	5,000	600	13.6%
REAL ESTATE	65	2,800	3,500	700	25.0%
<b>SERVICES</b>	<b>70-89, 074, 5, 8</b>	<b>53,500</b>	<b>66,800</b>	<b>13,300</b>	<b>24.9%</b>
HOTELS & OTHER LODGING PLACES	70	2,100	2,300	200	9.5%
PERSONAL SERVICES	72	2,600	2,800	200	7.7%
BUSINESS SERVICES	73	7,300	9,800	2,500	34.2%
AUTOMOBILE & MISC REPAIR	75-76	4,100	5,000	900	22.0%
HEALTH SERVICES	80	18,400	22,700	4,300	23.4%
OTHER SERVICES	78-9, 81-9, 074, 5, 8	27,900	34,300	6,400	22.9%
LEGAL SERVICES	81	1,900	2,600	700	36.8%
EDUCATIONAL SERVICES	82	2,000	2,900	900	45.0%
SOCIAL SERVICES	83	4,000	4,800	800	20.0%
MEMBERSHIP ORGANIZATIONS	86	3,200	3,500	300	9.4%
ENGNR, ACCT, RSRCH, MGMT SERVI	87	3,700	4,600	900	24.3%
SERVICES, N.E.C.	78-79, 84, 89, 074, 5, 8	4,300	5,700	1,400	32.6%
<b>GOVERNMENT (2)</b>		<b>50,700</b>	<b>55,100</b>	<b>4,400</b>	<b>8.7%</b>
FEDERAL GOVERNMENT		10,000	12,300	2,300	23.0%
STATE AND LOCAL		40,700	42,900	2,200	5.4%

1/ March 1991 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

2/ Includes all civilian government employees regardless of the activities in which they are engaged.

## OCCUPATIONAL TRENDS

**OCCUPATIONAL CHART  
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP  
FRESNO COUNTY 1990 - 1997**



**TABLE 3  
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP  
FRESNO COUNTY 1990 - 1997**

OCCUPATIONAL GROUP	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
<b>TOTAL, ALL OCCUPATIONS*</b>	229,400	100.0%	266,600	100.0%	37,200	16.2%
<b>MGRS AND ADMINISTRATIVE</b>	14,480	6.3%	16,840	6.3%	2,360	16.3%
<b>PROFESSIONAL, PARAPROF, TECH</b>	49,430	21.5%	57,490	21.6%	8,060	16.3%
<b>SALES AND RELATED</b>	26,420	11.5%	31,710	11.9%	5,290	20.0%
<b>CLERICAL, ADMINISTRATIVE SUPPORT</b>	44,790	19.5%	51,460	19.3%	6,670	14.9%
<b>SERVICE OCCUPATIONS</b>	34,350	15.0%	40,470	15.2%	6,120	17.8%
<b>AGRICULTURAL, FORESTRY, FISH</b>	3,460	1.5%	4,340	1.6%	880	25.4%
<b>PROD, CONST, OPER, MAT HAND</b>	55,950	24.4%	62,800	23.6%	6,850	12.2%

\* TOTAL INCLUDES A SMALL NUMBER OF OCCUPATIONS WHICH WERE NOT CLASSIFIED, AND IS BASED ON THE 3/91 BENCHMARKED INDUSTRY TOTAL.



**TABLE 4**  
**OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH\***

*FRESNO COUNTY 1990 - 1997*

OCCUPATION	1990	1997	ABSOLUTE CHANGE	PERCENT CHANGE
SALESPERSONS - RETAIL(NON-VEHICLE)	7,520	9,270	1,750	23.3%
GENERAL OFFICE CLERKS	7,690	8,860	1,170	15.2%
CASHIERS	5,300	6,430	1,130	21.3%
GENERAL MANAGERS, TOP EXECUTIVES	5,960	6,920	960	16.1%
ACCOUNTANTS AND AUDITORS	3,720	4,520	800	21.5%
SECRETARIES, GENERAL	4,340	5,070	730	16.8%
WAITERS AND WAITRESSES	3,620	4,350	730	20.2%
STOCK CLERKS--SALES FLOOR	2,940	3,620	680	23.1%
REGISTERED NURSES	3,590	4,250	660	18.4%
FOOD PREPARATION WORKERS	3,820	4,430	610	16.0%
INSTRUCTIONAL AIDES	4,570	5,140	570	12.5%
COMBINED FOOD PREP AND SERVICE	2,420	2,980	560	23.1%
JANITORS, CLEANERS--EXCEPT MAIDS	3,740	4,300	560	15.0%
RECEPTIONISTS, INFORMATION CLERKS	2,190	2,690	500	22.8%
GARDENERS, GROUNDSKEEPERS-EX FARM	1,470	1,970	500	34.0%
NURSE AIDES, ORDERLIES, ATTENDANTS	2,290	2,760	470	20.5%
BOOKKEEPING, ACCOUNTING CLERKS	4,990	5,450	460	9.2%
TEACHERS--ELEMENTARY SCHOOL	3,510	3,920	410	11.7%
TEACHERS--SECONDARY SCHOOL	2,300	2,660	360	15.7%
GUARDS AND WATCH GUARDS	1,300	1,650	350	26.9%
TRUCK DRIVERS, LIGHT	2,240	2,570	330	14.7%
SALES REPS, NON-SCIENTIFIC EX RET	2,420	2,740	320	13.2%
COOKS--RESTAURANT	1,210	1,520	310	25.6%
TYPISTS, INCLUDING WORD PROCESSING	2,010	2,310	300	14.9%
CARPENTERS	2,150	2,450	300	14.0%
MAINT REPAIRERS, GENL UTILITY	2,510	2,790	280	11.2%
LICENSED VOCATIONAL NURSES	1,220	1,480	260	21.3%
TRUCK DRIVERS, HEAVY	2,820	3,080	260	9.2%
FINANCIAL MANAGERS	1,610	1,860	250	15.5%
LAWYERS	870	1,110	240	27.6%
DINING RM ATTENDANTS, BAR HELPERS	1,090	1,330	240	22.0%
AUTOMOTIVE MECHANICS	1,480	1,690	210	14.2%
TRAFFIC, SHIPPING, RECEIVING CLKS	1,370	1,570	200	14.6%
COOKS--SPECIALTY FAST FOOD	990	1,190	200	20.2%
PHYSICIANS AND SURGEONS	940	1,130	190	20.2%
SECRETARIES, LEGAL	510	700	190	37.3%
COUNTER ATTENDANTS--FOOD	760	950	190	25.0%
POSTAL MAIL CARRIERS	720	890	170	23.6%
STOCK CLERKS--STOCKROOM, WAREHOUSE	1,450	1,620	170	11.7%
TEACHERS--VOC ED AND TRAINING	870	1,030	160	18.4%
VETS AND VETERINARY INSPECTORS	290	450	160	55.2%
TEACHERS, PRESCHOOL & KINDERGARTEN	940	1,090	150	16.0%
TELLERS	1,080	1,230	150	13.9%
MAIDS AND HOUSEKEEPING CLEANERS	1,090	1,240	150	13.8%
HAND PACKERS AND PACKAGERS	1,350	1,500	150	11.1%
MKTING, ADV, PUB-REL MANAGERS	740	880	140	18.9%
FOOD SERVICE MANAGERS	480	620	140	29.2%
SALES AGENTS, PLACERS--INSURANCE	860	1,000	140	16.3%
SECRETARIES, MEDICAL	560	700	140	25.0%
ELECTRICIANS	760	900	140	18.4%

\* EXCLUDES NEC CATEGORIES.

**TABLE 5**  
**OCCUPATIONS WITH THE FASTEST JOB GROWTH\***

*FRESNO COUNTY 1990 - 1997*

<b>OCCUPATION</b>	<b>1990</b>	<b>1997</b>	<b>ABSOLUTE CHANGE</b>	<b>PERCENT CHANGE</b>
VETS AND VETERINARY INSPECTORS	290	450	160	55.2%
SECRETARIES, LEGAL	510	700	190	37.3%
GARDENERS, GROUNDSKEEPERS-EX FARM	1,470	1,970	500	34.0%
PARALEGAL PERSONNEL	150	200	50	33.3%
PEST CONTROLLERS AND ASSISTANTS	160	210	50	31.3%
PHYSICAL THERAPISTS	130	170	40	30.8%
TAXI DRIVERS AND CHAUFFEURS	130	170	40	30.8%
RESPIRATORY CARE PRACTITIONERS	230	300	70	30.4%
PROPERTY AND REAL ESTATE MANAGERS	410	530	120	29.3%
FOOD SERVICE MANAGERS	480	620	140	29.2%
LAWYERS	870	1,110	240	27.6%
DENTAL HYGIENISTS	220	280	60	27.3%
DETECTIVES, INVESTIGATORS--EX PUB	110	140	30	27.3%
INSULATION WORKERS	110	140	30	27.3%
ROOFERS	110	140	30	27.3%
SEWING MACHINE OPS--NON-GARMENT	110	140	30	27.3%
GUARDS AND WATCH GUARDS	1,300	1,650	350	26.9%
AIRCRAFT MECHANICS	260	330	70	26.9%
RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	380	480	100	26.3%
TAX PREPARERS	190	240	50	26.3%
COOKS--RESTAURANT	1,210	1,520	310	25.6%
BAKERS--BREAD AND PASTRY	430	540	110	25.6%
COUNTER ATTENDANTS--FOOD	760	950	190	25.0%
SECRETARIES, MEDICAL	560	700	140	25.0%
SEPTIC TANK, SEWER PIPE SERVICERS	200	250	50	25.0%
PHYSICAL THERAPY ASSISTANTS & AIDE	160	200	40	25.0%
AGRICULTURAL AND FOOD SCIENTISTS	120	150	30	25.0%
DENTAL ASSISTANTS	410	510	100	24.4%
INSTRUCTORS--NON-VOC EDUCATION	210	260	50	23.8%
POSTAL MAIL CARRIERS	720	890	170	23.6%
MEDICAL ASSISTANTS	510	630	120	23.5%
SALESPERSONS - RETAIL(NON-VEHICLE)	7,520	9,270	1,750	23.3%
COMBINED FOOD PREP AND SERVICE	2,420	2,980	560	23.1%
STOCK CLERKS--SALES FLOOR	2,940	3,620	680	23.1%
SYSTEMS ANALYSTS--ELEC DATA PROC	390	480	90	23.1%
OCCUPATIONAL THERAPISTS	130	160	30	23.1%
MED, CLINICAL LAB ASSISTANTS	130	160	30	23.1%
ARTISTS AND RELATED WORKERS	130	160	30	23.1%
TRAVEL AGENTS	130	160	30	23.1%
HELPERS--ROOFERS	130	160	30	23.1%
TELEMARKETERS, SOLICITORS & RELATE	350	430	80	22.9%
RECEPTIONISTS, INFORMATION CLERKS	2,190	2,690	500	22.8%
MEDICAL RECORDS TECHNICIANS	220	270	50	22.7%
SEWING MACHINE OPERATORS--GARMENT	270	330	60	22.2%
HOME HEALTH CARE WORKERS	180	220	40	22.2%
HARD TILE SETTERS	180	220	40	22.2%
DINING RM ATTENDANTS, BAR HELPERS	1,090	1,330	240	22.0%
BUS DRIVERS--SCHOOL	410	500	90	22.0%
EMERGENCY MEDICAL TECHNICIANS	230	280	50	21.7%
LOAN OFFICERS AND COUNSELORS	370	450	80	21.6%

\* EXCLUDES NEC CATEGORIES AND OCCUPATIONS WITH EMPLOYMENT OF LESS THAN 100 IN 1990.



## OCCUPATIONAL TRENDS AND OUTLOOK

This section of the report provides a more detailed discussion of major trends for specific occupational groups which are shown in Table 6. Projected changes in the level of employment in each occupation between 1990 and 1997 give an estimate of the number of job opportunities during the seven-year period.

Changes in the employment levels of the various occupations reflect changes in the county's overall level of economic activity, differences in the rate of growth among the various industries, and changes in the occupational structure within individual industries. Changes in occupational structure are determined by such factors as technological change, changes in product demand, and/or the adoption of new business or production techniques. While economic growth tends to ensure an increase in demand for widely used occupations, the growth of employment in specific industries will bring an increase in the demand for other, less widely used occupations.

In addition to the 37,200 job opportunities created through industry growth, another 39,750 jobs will become available as a result of net separations. The separations data represent an estimate of the number of job openings expected to occur when workers permanently leave an occupation.

The number of jobs in Fresno County is expected to increase 16.2 percent during the projection period, 1990-1997. The following is a discussion of the seven occupational groups.

### MANAGERS AND ADMINISTRATIVE WORKERS

Fresno County manager and administrative positions are projected to grow in number from 14,480 in 1990 to 16,840 in 1997. This is a slightly faster growth rate than the expected 16.2 percent for all occupations in the county. Job separations are likely to account for an additional 1,600 job openings.

#### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE MANAGERS AND ADMINISTRATIVE WORKERS GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>MGRS AND ADMIN OCCUPATIONS</b>	<b>14,480</b>	<b>100.0%</b>	<b>16,840</b>	<b>100.0%</b>
GENERAL MANAGERS, TOP EXECUTIVES	5,960	41.1%	6,920	41.2%
FINANCIAL MANAGERS	1,610	11.1%	1,860	11.1%
EDUCATION ADMINISTRATORS	780	5.4%	890	5.3%
MKTING, ADV, PUB-REL MANAGERS	740	5.1%	880	5.2%
PURCHASING MANAGERS	550	3.8%	620	3.7%

\*EXCLUDES NEC CATEGORIES

The occupations in this division include managers, administrators, executives, and officials in all industries. In 1990, employers reported approximately 41.1 percent of all managers as general managers or top executives. In addition to those covered by the general managers and top executives occupational titles, the fastest growing



occupations are expected to be property and real estate managers; food service managers; construction managers; and marketing, advertising, and public relations managers.

## PROFESSIONAL AND TECHNICAL

There are about 90 occupations in Fresno County in this major occupational group, of which 17 are on the list of fastest growing occupations during 1990-1997 (Table 5). Occupations in the entire group include accountants, architects, engineers, scientists, lawyers, teachers, medical practitioners, and entertainers. The number of professional and technical workers in the county will grow 16.3 percent during the projection period. The fastest growing professional, paraprofessional, and technical occupations will be loan officers and counselors; systems analysts-electronic data processing; instructors - non-vocational education; and several occupations in the occupational subgroup of health practitioners, technicians, and related.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE PROFESSIONAL AND TECHNICAL GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
PROFESSIONAL, PARAPROF, TECH.	49,430	100.0%	57,490	100.0%
INSTRUCTIONAL AIDES	4,570	9.2%	5,140	9.0%
ACCOUNTANTS AND AUDITORS	3,720	7.5%	4,520	7.9%
REGISTERED NURSES	3,590	7.3%	4,250	7.4%
TEACHERS--ELEMENTARY SCHOOL	3,510	7.1%	3,920	6.8%
TEACHERS--SECONDARY SCHOOL	2,300	4.7%	2,660	4.6%

\* EXCLUDES NEC CATEGORIES

When using this report's data on professional occupations, it is important to realize that the employment levels include only wage and salary or payroll employment. The self-employed are not included, although they represent a large proportion of all jobs in many professional occupations, such as physician and dentist. Figures in this report for these types of occupations are different from those sources of data which include the self-employed.

## SALES AND RELATED

The primary employers of workers in this group are retail stores, manufacturing and wholesale firms, insurance companies, and real estate agencies. In 1990 the annual average number of jobs in sales occupations was 26,420, or 11.5 percent of all nonagricultural employment in the county. Employment is expected to increase to an 11.9 percent share in 1997. The 1997 total of 31,710 includes a gain of 5,290 workers from the 1990 annual average. Occupational growth alone does not account for all job openings since separations will add another 6,560 vacancies.

This occupational group is small when compared with most other groups. However, it does contain the largest single occupation, retail salesperson. The projection for this

occupation is 1,750 new jobs by 1997, reaching an employment total of 9,270. Approximately one out of every 28 nonagricultural jobs in the county will be for a retail salesperson.

#### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE SALES AND RELATED GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>SALES AND RELATED OCCUPATIONS</b>	<b>26,420</b>	<b>100.0%</b>	<b>31,710</b>	<b>100.0%</b>
SALESPERSONS - RETAIL (NON-VEHICLE)	7,520	28.4%	9,270	29.3%
CASHIERS	5,300	20.0%	6,430	20.3%
STOCK CLERKS--SALES FLOOR	2,940	11.1%	3,620	11.4%
FIRST-LINE SUP/MGR--SALES	2,790	10.5%	3,290	10.4%
SALES REPS, NON-SCIENTIFIC EX RETAIL	2,420	9.1%	2,740	8.7%

\* EXCLUDES NEC CATEGORIES

#### CLERICAL AND ADMINISTRATIVE SUPPORT

For the projections period, the number of clerical and administrative support jobs is expected to grow at a rate relatively slower than that for all nonagricultural occupations in the county. Office automation and other technological change will result in slow growth in some occupations. Employment declines are expected in other occupations, such as welfare disability workers and interviewers, directory assistance operators, and central office operators. Some occupations will experience faster growth than the average for nonagricultural occupations, especially occupations found primarily in fast growing industries.

The clerical and administrative support occupation that is projected to have the greatest absolute job increase between 1990 and 1997 is general office clerk. This occupation is expected to expand by 1,170 workers, making the 1997 total 8,860. Large job gains are also expected in the following occupations: receptionists; information clerks (500); bookkeeping and accounting clerks (460); typists, including word processing (300), and traffic, shipping, and receiving clerks (200).

Other occupations that should grow include: new accounts clerks; bill collectors; secretaries (legal, medical, and other); file clerks; interview clerks-except personnel and welfare; billing, posting, and calculating machine operators; switchboard operators; receptionists; postal mail carriers; postal service clerks; and clerical, administrative support, not elsewhere classified.

#### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE CLERICAL AND ADMINISTRATIVE SUPPORT GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>CLERICAL, ADMIN SUPPORT</b>	<b>44,790</b>	<b>100.0%</b>	<b>51,460</b>	<b>100.0%</b>
GENERAL OFFICE CLERKS	7,690	17.1%	8,860	17.2%
BOOKKEEPING, ACCOUNTING CLERKS	4,990	11.1%	5,450	10.6%
SECRETARIES, GENERAL	4,340	9.7%	5,070	9.9%
FIRST-LINE SUP/MGR, CLERL, ADM SUP	3,080	6.9%	3,520	6.9%
RECEPTIONISTS, INFORMATION CLERKS	2,190	4.9%	2,690	5.2%

\* EXCLUDES NEC CATEGORIES



## SERVICE OCCUPATIONS

Service occupations accounted for 15 percent of the total nonagricultural occupational work force in 1990, and will gain 6,120 jobs by 1997, bringing the total to 40,470. An additional 9,270 job openings will result from separations.

The occupational categories within the services group with the largest growth in numbers for the projection period (1990-1997) include: food, beverage preparation, and service occupations; health service, related occupations; and cleaning, building service, except private households occupations. Another occupational category with significant but slightly smaller growth is protective services occupations.

Specific sub-categories which will experience relatively large growth from 1990 to 1997 within those services occupational categories are waiters and waitresses; food preparation workers; combined food preparation and service workers; janitors, cleaners except maids; nurse aids, orderlies, attendants; and guards and watch guards.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE SERVICE GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>SERVICE OCCUPATIONS</b>	<b>34,350</b>	<b>100.0%</b>	<b>40,470</b>	<b>100.0%</b>
FOOD PREPARATION WORKERS	3,820	11.1%	4,430	11.0%
WAITERS AND WAITRESSES	3,620	10.5%	4,350	10.8%
JANITORS, CLEANERS--EXCEPT MAIDS	3,740	10.9%	4,300	10.7%
COMBINED FOOD PREP AND SERVICE	2,420	7.0%	2,980	7.4%
NURSE AIDES, ORDERLIES, ATTENDANTS	2,290	6.7%	2,760	6.8%

\* EXCLUDES NEC CATEGORIES

## AGRICULTURAL, FORESTRY, AND FISHING

This report does not include data for most types of agricultural activities. However, in the Agricultural, Forestry, and Fishing group, gardeners and groundskeepers make up over 42 percent of the 1990 employment. During the projection period, there will be an estimated 500 new jobs under the gardeners, groundskeepers-except farm occupational title, with a total of 1,970 working by 1997. Separations will account for an additional 170 new job openings over the same period.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE AGRICULTURE, FORESTRY AND FISHING GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
<b>AGRICULTURAL, FORESTRY, FISHING</b>	<b>3,460</b>	<b>100.0%</b>	<b>4,340</b>	<b>100.0%</b>
GARDENER, GROUNDSKEEPER-EX FARM	1,470	41.5%	1,970	45.9%
GRADERS, SORTERS--AG PRODUCTS	690	19.5%	810	18.9%
FOREST, CONSERVATION WORKERS	280	7.8%	310	7.1%
FIRST-LINE SUP/MGR--AG, FOR, FISH	110	3.2%	130	3.0%

\* EXCLUDES NEC CATEGORIES



## PRODUCTION, CONSTRUCTION, AND RELATED

The production, construction, and related division is projected to have an employment total of 62,800 by 1997, an increase of 12 percent from 1990. Slow economic growth will contribute 6,850 jobs during the seven-year projection period, while openings due to separations are expected to number 9,190.

This major occupational group contains approximately 100 occupations. Seven appear on the county's list of fastest growing occupations from 1990-1997. Among the largest subgroups within this group in 1990 were: helpers, laborers, hand-except agricultural (13,760); transportation, material moving machine operators (9,110); construction trades (7,910); and mechanics, installers, and repairers (7,890).

Within the group, the sub-categories with relatively large growth during the forecast period are: truck drivers, light; carpenters; maintenance repairers, general utility; truck drivers, heavy; and automotive mechanics.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE PRODUCTION, CONSTRUCTION, AND RELATED GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
PROD, CONST, OPER, MAT HANDLING	55,950	100.0%	62,800	100.0%
TRUCK DRIVERS, HEAVY	2,820	5.0%	3,080	4.9%
MAINT REPAIRERS, GENL UTILITY	2,510	4.5%	2,790	4.5%
TRUCK DRIVERS, LIGHT	2,240	4.0%	2,570	4.1%
CARPENTERS	2,150	3.8%	2,450	3.9%
AUTOMOTIVE MECHANICS	1,480	2.6%	1,690	2.7%

\* EXCLUDES NEC CATEGORIES

# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
1		TOTAL, ALL OCCUPATIONS	229,400	266,600	37,200	16.2	39,750
2	100000	MGRS AND ADMIN OCCUPATIONS	14,480	16,840	2,360	16.3	1,600
3	130020	FINANCIAL MANAGERS	1,610	1,860	250	15.5	160
4	130050	PERS, TRAINING, LABOR-REL MGRS	340	380	40	11.8	60
5	130080	PURCHASING MANAGERS	550	620	70	12.7	80
6	130110	MKTING, ADV, PUB-REL MANAGERS	740	880	140	18.9	110
7	130140	ADMINISTRATIVE SERVICES MANAGERS	510	560	50	9.8	50
8	130170	ENGINEER, MATH, AND NAT SCI MGRS	300	340	40	13.3	30
10	150050	EDUCATION ADMINISTRATORS	780	890	110	14.1	110
11	150080	MEDICINE, HEALTH SERVICES MGRS	310	360	50	16.1	20
12	150110	PROPERTY AND REAL ESTATE MANAGERS	410	530	120	29.3	40
13	150140	INDUSTRIAL PRODUCTION MANAGERS	330	360	30	9.1	30
14	150170	CONSTRUCTION MANAGERS	490	590	100	20.4	50
16	150230	COMM, TRANS, UTIL OPER MGRS	380	420	40	10.5	40
17	150261	FOOD SERVICE MANAGERS	480	620	140	29.2	50
18	150262	LODGING MANAGERS	160	190	30	18.8	20
20	190050	GENERAL MANAGERS, TOP EXECUTIVES	5,960	6,920	960	16.1	630
21	199990	MANAGERS AND ADMINISTRATORS, NEC	1,130	1,320	190	16.8	120
22	200000	PROFESSIONAL, PARAPROF, TECHNICAL	49,430	57,490	8,060	16.3	5,800
23	210000	MANAGEMENT SUPPORT OCCUPATIONS	7,960	9,430	1,470	18.5	860
24	211000	ACCOUNTANTS, AUDIT, FINANCE SPECS	4,650	5,650	1,000	21.5	520
25	211020	UNDERWRITERS	180	210	30	16.7	20
27	211080	LOAN OFFICERS AND COUNSELORS	370	450	80	21.6	40
28	211110	TAX PREPARERS	190	240	50	26.3	20
29	211140	ACCOUNTANTS AND AUDITORS	3,720	4,520	800	21.5	420
31	211990	FINANCIAL SPECIALISTS, NEC	190	230	40	21.1	20
32	213000	PURCHASING AGENTS AND BUYERS	630	730	100	15.9	80
33	213020	WHLE AND RET BUYERS--EX FARM PRODS	360	420	60	16.7	50
35	213080	PURCH AGTS--EX WHLE,RET,FARM PRODS	270	310	40	14.8	30
36	215000	PERS, TRAINING, LAB-REL SPECS	390	440	50	12.8	50
40	215110	PERS, TRAINING, LAB-REL SPECS, NEC	390	440	50	12.8	50
41	219000	OTHER MANAGEMENT SUPPORT WORKERS	2,290	2,610	320	14.0	210
42	219020	COST ESTIMATORS	450	520	70	15.6	40
43	219050	MANAGEMENT ANALYSTS	250	280	30	12.0	20
45	219110	COMPL, ENFORCE INSPECT--EX CONST	730	830	100	13.7	80
46	219140	TAX EXAMINERS, COLLECT, REV AGENTS	180	210	30	16.7	20
49	219990	MANAGEMENT SUPPORT WORKERS, NEC	680	770	90	13.2	50
50	220000	ENGINEERS, ARCHITECTS, SURVEYORS	2,460	2,760	300	12.2	410

\* TOTAL IS BASED ON THE 3/91 BENCHMARKED INDUSTRY TOTAL

# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
51	221000	ENGINEERS	1,140	1,250	110	9.6	190
58	221210	CIVIL ENGINEERS--INCLUDING TRAFFIC	490	500	10	2.0	70
60	221260	ELECT AND ELECTRONIC ENGINEERS	230	270	40	17.4	40
64	221350	MECHANICAL ENGINEERS	210	240	30	14.3	40
66	221990	ENGINEERS, NEC	210	240	30	14.3	40
67	223000	ARCHITECTS AND SURVEYORS	110	130	20	18.2	10
68	223020	ARCHITECTS--EX LANDSCAPE, MARINE	110	130	20	18.2	10
72	225000	ENGINEERING, RELATED TECHNICIANS	1,210	1,380	170	14.0	210
73	225020	CIVIL ENGINEERING TECHNICIANS	230	240	10	4.3	40
74	225050	ELECT, ELECTRONIC ENGINEERING TECH	410	480	70	17.1	30
77	225140	DRAFTERS	370	440	70	18.9	100
80	225990	ENGINEERING, RELATED TECHS, NEC	200	220	20	10.0	40
81	240000	NAT SCIENTISTS AND RELATED WORKERS	560	660	100	17.9	130
88	243000	LIFE SCIENTISTS	290	340	50	17.2	70
90	243050	AGRICULTURAL AND FOOD SCIENTISTS	120	150	30	25.0	30
93	243990	LIFE SCIENTISTS, NEC	170	190	20	11.8	40
94	245000	PHYSICAL, LIFE SCIENCE TECHS	270	320	50	18.5	60
99	245990	PHYSICAL, LIFE SCIENCE TECHS, NEC	270	320	50	18.5	60
100	250000	COMPUTER, MATH, OPS RESRCH, RELATE	1,010	1,190	180	17.8	120
101	251000	COMPUTER SCIENTISTS AND RELATED	1,010	1,190	180	17.8	120
102	251020	SYSTEMS ANALYSTS--ELEC DATA PROC	390	480	90	23.1	20
103	251051	COMPUTER PROGRAMMERS, INCL AIDES	620	710	90	14.5	100
114	270000	SOCIAL SCI, RECREATION, RELIGIOUS	2,670	2,970	300	11.2	160
115	271000	SOCIAL SCI--INCL URBAN, REG PLNERS	140	160	20	14.3	10
118	271080	PSYCHOLOGISTS	140	160	20	14.3	10
120	273000	OTH SOCIAL SCIENCE RELATED WORKERS	2,120	2,370	250	11.8	120
121	273020	SOCIAL WORKERS--MED, PSYCHIATRIC	450	540	90	20.0	30
122	273050	SOCIAL WKRS--EX MED, PSYCHIATRIC	740	790	50	6.8	40
124	273080	HUMAN SERVICES WORKERS	760	860	100	13.2	40
125	273110	RECREATION WORKERS	170	180	10	5.9	10
126	275000	RELIGIOUS WORKERS	410	440	30	7.3	30
127	275020	CLERGY	240	260	20	8.3	20
128	275050	DIRECTORS--RELIG ACTIVITIES, EDUC	170	180	10	5.9	10
130	280000	LAW AND RELATED OCCUPATIONS	1,590	1,920	330	20.8	190
131	281000	LAWYERS AND RELATED WORKERS	1,010	1,240	230	22.8	150
133	281050	ADJUDICATORS, JUDICIAL REVIEWERS	140	130	-10	-7.1	20



# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
134	281080	LAWYERS	870	1,110	240	27.6	130
135	283000	LEGAL ASSTS, TECHS, EX CLERICAL	580	680	100	17.2	40
136	283020	LAW CLERKS	150	170	20	13.3	20
137	283050	PARALEGAL PERSONNEL	150	200	50	33.3	10
140	283990	LEGAL ASSTS, TECHS--EX CLER, NEC	280	310	30	10.7	10
141	310000	TEACHERS, EDUCATORS, LIBRARIANS	16,950	19,210	2,260	13.3	1,870
142	311000	POST-SECONDARY TEACHERS	1,700	1,950	250	14.7	400
144	311140	NURSING INSTRUCTORS	130	150	20	15.4	10
145	311170	GRADUATE ASSISTANTS, TEACHING	250	280	30	12.0	60
146	312020	LIFE SCIENCES TEACHERS	160	190	30	18.8	40
150	312100	SOCIAL SCIENCE TEACHERS	190	220	30	15.8	50
152	312160	ENGLISH, FOREIGN LANGUAGE TEACHERS	200	230	30	15.0	50
153	312180	ART, DRAMA, MUSIC TEACHERS	160	180	20	12.5	40
157	312990	POSTSECONDARY TEACHERS, NEC	610	700	90	14.8	150
158	313000	OTHER TEACHERS AND INSTRUCTORS	9,840	11,220	1,380	14.0	920
159	313020	TEACHERS, PRESCHOOL & KINDERGARTEN	940	1,090	150	16.0	30
160	313050	TEACHERS--ELEMENTARY SCHOOL	3,510	3,920	410	11.7	440
161	313080	TEACHERS--SECONDARY SCHOOL	2,300	2,660	360	15.7	330
162	313110	TEACHERS--SPECIAL EDUCATION	970	1,090	120	12.4	40
163	313140	TEACHERS--VOC ED AND TRAINING	870	1,030	160	18.4	30
164	313170	INSTRUCTORS--NON-VOC EDUCATION	210	260	50	23.8	10
165	313210	INSTRUCTORS AND COACHES--SPORTS	310	350	40	12.9	10
167	313990	TEACHERS AND INSTRUCTORS, NEC	730	820	90	12.3	30
168	315000	LIBRARIANS, ARCHIVISTS AND RELATED	5,410	6,040	630	11.6	550
169	315020	LIBRARIANS--PROFESSIONAL	220	230	10	4.5	30
170	315050	TECHNICAL ASSISTANTS--LIBRARY	350	350	0	0.0	30
173	315140	VOCATIONAL & EDUC COUNSELORS	270	320	50	18.5	30
175	315211	INSTRUCTIONAL AIDES	4,570	5,140	570	12.5	460
176	320000	HEALTH PRACTITIONERS, TECHS, RELAT	9,820	11,910	2,090	21.3	1,210
177	321000	HEALTH DIAGNOSING, TREATING	1,500	1,900	400	26.7	280
178	321020	PHYSICIANS AND SURGEONS	940	1,130	190	20.2	170
179	321050	DENTISTS	270	320	50	18.5	50
183	321140	VETS AND VETERINARY INSPECTORS	290	450	160	55.2	60
185	323000	THERAPISTS	490	630	140	28.6	80
186	323020	RESPIRATORY CARE PRACTITIONERS	230	300	70	30.4	40
187	323050	OCCUPATIONAL THERAPISTS	130	160	30	23.1	20
188	323080	PHYSICAL THERAPISTS	130	170	40	30.8	20
193	325000	HEALTH CARE MAINTENANCE, TREATING	5,740	6,820	1,080	18.8	630
194	325020	REGISTERED NURSES	3,590	4,250	660	18.4	360
195	325050	LICENSED VOCATIONAL NURSES	1,220	1,480	260	21.3	150
196	325080	EMERGENCY MEDICAL TECHNICIANS	230	280	50	21.7	10
197	325110	PHYSICIAN'S ASSISTANTS	180	200	20	11.1	20

**TABLE 6  
OCCUPATIONAL PROJECTIONS**

**FRESNO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
198	325140	OPTICIANS--DISPENSING, MEASURING	120	140	20	16.7	20
199	325170	PHARMACISTS	290	340	50	17.2	50
201	325210	DIETITIANS AND NUTRITIONISTS	110	130	20	18.2	20
203	329000	OTHER HEALTH PROFS, PARAPROFS	2,090	2,560	470	22.5	220
204	329020	MED, CLINICAL LAB TECHNOLOGISTS	370	410	40	10.8	50
205	329050	MED, CLINICAL LAB ASSISTANTS	130	160	30	23.1	20
206	329080	DENTAL HYGIENISTS	220	280	60	27.3	30
207	329110	MEDICAL RECORDS TECHNICIANS	220	270	50	22.7	30
210	329210	RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	380	480	100	26.3	50
217	329990	HEALTH CARE PROFS, PARAPROFS, NEC	770	960	190	24.7	40
218	340000	WRITERS, ARTISTS, ENTER, ATHLETES	890	1,010	120	13.5	110
219	340020	WRITERS AND EDITORS	160	180	20	12.5	20
222	340110	REPORTERS AND CORRESPONDENTS	120	140	20	16.7	10
228	340280	BROADCAST TECHNICIANS	110	110	0	0.0	20
230	340350	ARTISTS AND RELATED WORKERS	130	160	30	23.1	20
231	340381	FLORAL DESIGNERS	140	160	20	14.3	10
232	340382	DESIGNERS, EX INTERIOR AND FLORAL	130	150	20	15.4	10
235	340470	MUSIC DIRECTORS, SINGERS,COMPOSERS	100	110	10	10.0	20
240	390000	MISC PROFS, PARAPROFS, TECHNICAL	5,520	6,430	910	16.5	740
246	399990	OTHER PROF, PARAPROF, TECHNICAL	5,520	6,430	910	16.5	740
247	400000	<b>SALES AND RELATED OCCUPATIONS</b>	<b>26,420</b>	<b>31,710</b>	<b>5,290</b>	<b>20.0</b>	<b>6,560</b>
248	410000	FIRST-LINE SUP/MGR--SALES	2,790	3,290	500	17.9	330
249	430000	SALES AGENTS--SERVICE	2,020	2,370	350	17.3	300
250	430020	SALES AGENTS, PLACERS--INSURANCE	860	1,000	140	16.3	170
252	430080	SALES AGENTS--REAL ESTATE	110	130	20	18.2	10
253	430110	APPRAISERS--REAL ESTATE	140	160	20	14.3	10
254	430140	SALES AGENTS--FINANCIAL SERVICES	170	200	30	17.6	10
255	430170	SALES AGENTS--SEL BUS SERVICES	450	540	90	20.0	40
256	430210	TRAVEL AGENTS	130	160	30	23.1	40
257	430230	SALES AGENTS--ADVERTISING	160	180	20	12.5	20
259	490000	MERCH, PRODUCTS AND OTHER SALES	21,610	26,050	4,440	20.5	5,930
261	490050	SALES REPS, SCIENTIFIC--EX RETAIL	480	520	40	8.3	70
262	490080	SALES REPS, NON-SCIENTIFIC EX RET	2,420	2,740	320	13.2	380
263	490111	VEHICLE SALESPERSONS - RETAIL	550	610	60	10.9	150
264	490112	SALESPERSONS - RETAIL(NON-VEHICLE)	7,520	9,270	1,750	23.3	2,190
265	490140	SALESPERSONS--PARTS	720	810	90	12.5	160
266	490170	COUNTER AND RENTAL CLERKS	440	510	70	15.9	50
267	490210	STOCK CLERKS--SALES FLOOR	2,940	3,620	680	23.1	820
268	490230	CASHIERS	5,300	6,430	1,130	21.3	1,880
269	490260	TELEMARKETERS, SOLICITOR & RELATED	350	430	80	22.9	70



# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
271	499990	SALES AND RELATED WORKERS, NEC	890	1,110	220	24.7	160
272	500000	CLERICAL, ADMINISTRATIVE SUPPORT	44,790	51,460	6,670	14.9	6,730
273	510000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	3,080	3,520	440	14.3	530
274	530000	INDUSTRY SPECIFIC CLERICAL, ADMIN	4,370	4,890	520	11.9	720
275	531000	BANKING, SECURITY, FINANCE, CREDIT	2,130	2,450	320	15.0	480
276	531020	TELLERS	1,080	1,230	150	13.9	390
277	531050	NEW ACCOUNTS CLERKS	200	240	40	20.0	40
282	531210	LOAN AND CREDIT CLERKS	310	360	50	16.1	10
283	531230	ADJUSTMENT CLERKS	540	620	80	14.8	40
286	533000	INSURANCE WORKERS	1,060	1,190	130	12.3	50
287	533020	INS ADJUST, EXAMIN, INVESTIGATORS	340	390	50	14.7	20
290	533110	INSURANCE CLAIMS CLERKS	210	240	30	14.3	10
291	533140	INSURANCE POLICY PROCESSING CLERKS	510	560	50	9.8	20
292	535000	INVESTIGATIVE, RELATED, EX INSUR	660	710	50	7.6	90
293	535020	WELFARE ELIG WORKERS, INTERVIEWERS	330	320	-10	-3.0	70
295	535080	BILL AND ACCOUNT COLLECTORS	330	390	60	18.2	20
296	537000	MUNICIPAL WORKERS	110	110	0	0.0	0
297	537020	COURT CLERKS	110	110	0	0.0	0
300	538000	LODGING AND TRAVEL WORKERS	150	160	10	6.7	20
303	538080	HOTEL DESK CLERKS	150	160	10	6.7	20
304	539000	MISC INDUSTRY SPECIFIC CLERICAL	260	270	10	3.8	80
305	539020	LIBRARY ASSTS & BOOKMOBILE DRIVERS	260	270	10	3.8	80
309	550000	SECRETARIAL, GENERAL OFFICE OCCS	25,750	29,670	3,920	15.2	3,890
310	551000	SECRETARIES	5,410	6,470	1,060	19.6	940
311	551020	SECRETARIES, LEGAL	510	700	190	37.3	100
312	551050	SECRETARIES, MEDICAL	560	700	140	25.0	100
313	551080	SECRETARIES, GENERAL	4,340	5,070	730	16.8	740
314	553000	MISC SECRETARIAL, GENL OFF OCCS	20,340	23,200	2,860	14.1	2,950
315	553020	STENOGRAPHERS	200	210	10	5.0	30
316	553050	RECEPTIONISTS, INFORMATION CLERKS	2,190	2,690	500	22.8	270
317	553070	TYPISTS, INCLUDING WORD PROCESSING	2,010	2,310	300	14.9	300
318	553140	PERS CLERKS--EX PAYROLL	320	370	50	15.6	60
320	553210	FILE CLERKS	560	660	100	17.9	190
321	553230	ORDER CLERKS--MATERIALS, SERVICE	520	570	50	9.6	90
323	553280	STATISTICAL CLERKS	150	170	20	13.3	30
324	553320	INTERVIEW CLERKS--EX PERS, WELFARE	220	260	40	18.2	50
325	553350	CUSTOMER SERVICE REPS--UTILITIES	310	330	20	6.5	60



# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
326	553380	BOOKKEEPING, ACCOUNTING CLERKS	4,990	5,450	460	9.2	730
327	553410	PAYROLL AND TIMEKEEPING CLERKS	390	430	40	10.3	100
328	553440	BILLING, COST, AND RATE CLERKS	790	890	100	12.7	190
329	553470	GENERAL OFFICE CLERKS	7,690	8,860	1,170	15.2	850
330	560000	EDP AND OFFICE MACHINE OCCUPATIONS	1,680	1,940	260	15.5	240
331	560020	BILLING, POSTING, CALC MACHINE OPS	300	350	50	16.7	100
334	560110	COMPUTER OPS--EX PERIPHERAL EQUIP	420	480	60	14.3	20
336	560170	DATA ENTRY KEYERS--EX COMPOSING	840	970	130	15.5	90
338	560990	OFFICE MACHINE OPERATORS, NEC	120	140	20	16.7	30
339	570000	COMMUNICATIONS, MAIL DISTRIBUTION	2,730	3,090	360	13.2	530
340	571000	COMMUNICATION EQUIPMENT OPERATORS	900	930	30	3.3	170
341	571020	SWITCHBOARD OPERATORS	550	640	90	16.4	110
342	571050	DIRECTORY ASSISTANCE OPERATORS	120	100	-20	-16.7	20
343	571080	CENTRAL OFFICE OPERATORS	230	190	-40	-17.4	40
346	573000	MAIL, MESSAGE DISTRIBUTION WORKERS	1,830	2,160	330	18.0	360
347	573020	MAIL CLKS-EX MAIL MACH OPS, POSTAL	690	790	100	14.5	190
348	573050	POSTAL MAIL CARRIERS	720	890	170	23.6	110
349	573080	POSTAL SERVICE CLERKS	230	270	40	17.4	30
350	573110	MESSENGERS	190	210	20	10.5	30
351	580000	MATERIAL RECORDING, DISPATCHING	4,360	4,880	520	11.9	610
352	580020	DISPATCH--POLICE, FIRE, AMBULANCE	130	130	0	0.0	20
353	580050	DISPATCH--EX POLICE, FIRE, AMBUL	420	480	60	14.3	60
354	580080	PROD, PLANNING, EXPEDITING CLERKS	270	290	20	7.4	50
356	580140	METER READERS--UTILITIES	180	190	10	5.6	30
359	580230	STOCK CLERK--STOCKROOM, WAREHOUSE	1,450	1,620	170	11.7	230
360	580260	ORDER FILLERS--WHLE & RET SALES	340	370	30	8.8	60
361	580280	TRAFFIC, SHIPPING, RECEIVING CLKS	1,370	1,570	200	14.6	130
362	580990	MATERIAL RECORDING, RELATED, NEC	200	230	30	15.0	30
363	590000	CLERICAL, ADMIN SUPPORT, NEC	2,820	3,470	650	23.0	210
365	600000	<b>SERVICE OCCUPATIONS</b>	<b>34,350</b>	<b>40,470</b>	<b>6,120</b>	<b>17.8</b>	<b>9,270</b>
366	610000	FIRST-LINE SUP/MGR--SERVICE	1,690	1,900	210	12.4	260
367	610020	FIRE FIGHTING & PREVENTION SUPS	170	160	-10	-5.9	40
368	610050	POLICE AND DETECTIVE SUPERVISORS	150	150	0	0.0	40
369	610080	HOUSEKEEPING SUPERVISORS	220	250	30	13.6	40
370	610990	FIRST-LINE SUP/MGR SERV WKRS, NEC	1,150	1,340	190	16.5	140
371	630000	PROTECTIVE SERVICE OCCUPATIONS	3,220	3,610	390	12.1	720
374	630080	FIRE FIGHTERS	300	300	0	0.0	70

**TABLE 6  
OCCUPATIONAL PROJECTIONS**

**FRESNO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
375	630110	POLICE DETECTIVES	110	110	0	0.0	30
376	630140	POLICE PATROL OFFICERS	520	500	-20	-3.8	110
377	630170	CORRECTION OFFICERS, JAILERS	280	310	30	10.7	20
382	630320	SHERIFFS AND DEPUTY SHERIFFS	350	350	0	0.0	60
383	630350	DETECTIVES, INVESTIGATORS--EX PUB	110	140	30	27.3	20
387	630470	GUARDS AND WATCH GUARDS	1,300	1,650	350	26.9	240
388	630990	PROTECTIVE SERVICE WORKERS, NEC	250	250	0	0.0	170
389	650000	FOOD, BEV PREP AND SERVICE OCCS	17,550	20,990	3,440	19.6	6,700
390	650020	HOSTS, HOSTESSES--RESTAURANTS	470	550	80	17.0	50
391	650050	BARTENDERS	560	620	60	10.7	140
392	650080	WAITERS AND WAITRESSES	3,620	4,350	730	20.2	1,310
393	650110	FOOD SERVERS--OUTSIDE	170	190	20	11.8	130
394	650140	DINING RM ATTENDANTS, BAR HELPERS	1,090	1,330	240	22.0	580
395	650170	COUNTER ATTENDANTS--FOOD	760	950	190	25.0	620
396	650210	BAKERS--BREAD AND PASTRY	430	540	110	25.6	100
397	650230	BUTCHERS AND MEAT CUTTERS	470	540	70	14.9	100
398	650260	COOKS--RESTAURANT	1,210	1,520	310	25.6	270
399	650280	COOKS--INSTITUTION OR CAFETERIA	780	890	110	14.1	170
400	650320	COOKS--SPECIALTY FAST FOOD	990	1,190	200	20.2	540
401	650350	COOKS--SHORT ORDER	320	380	60	18.8	170
402	650380	FOOD PREPARATION WORKERS	3,820	4,430	610	16.0	1,430
403	650410	COMBINED FOOD PREP AND SERVICE	2,420	2,980	560	23.1	930
404	650990	FOOD SERVICE WORKERS, NEC	440	530	90	20.5	160
405	660000	HEALTH SERVICE, RELATED OCCS	4,210	5,080	870	20.7	390
406	660020	DENTAL ASSISTANTS	410	510	100	24.4	70
407	660050	MEDICAL ASSISTANTS	510	630	120	23.5	30
408	660080	NURSE AIDES, ORDERLIES, ATTENDANTS	2,290	2,760	470	20.5	220
409	660110	HOME HEALTH CARE WORKERS	180	220	40	22.2	20
411	660170	PHYSICAL THERAPY ASSISTANTS & AIDES	160	200	40	25.0	10
416	660260	PHARMACY ASSISTANTS	150	180	30	20.0	10
417	660990	HEALTH SERVICE WORKERS, NEC	510	580	70	13.7	30
418	670000	CLEANING, BLDING SERV EX PRIV HOUS	5,350	6,120	770	14.4	830
419	670020	MAIDS AND HOUSEKEEPING CLEANERS	1,090	1,240	150	13.8	120
420	670050	JANITORS, CLEANERS--EXCEPT MAIDS	3,740	4,300	560	15.0	630
421	670080	PEST CONTROLLERS AND ASSISTANTS	160	210	50	31.3	30
423	670990	CLEANING, BLDING SERV--EX PH, NEC	360	370	10	2.8	50
424	680000	MISC PERSONAL SERVICE OCCUPATIONS	1,210	1,370	160	13.2	220
426	680050	HAIRDRESSERS, HAIRSTYLISTS	570	630	60	10.5	40
429	680140	AMUSEMENT, RECREATION ATTENDANTS	210	240	30	14.3	80
430	680170	GUIDES	110	130	20	18.2	40
431	680210	USHERS, LOBBY ATTENDANTS	130	150	20	15.4	50
437	680380	CHILD CARE WORKERS	190	220	30	15.8	10
439	690000	MISC SERVICE WORKERS	1,120	1,400	280	25.0	150



# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
440	700000	AGRICULTURAL, FORESTRY, FISHING	3,460	4,340	880	25.4	600
441	720000	FIRST-LINE SUP/MGR--AG, FOR, FISH	110	130	20	18.2	20
449	790000	MISC AG, FORESTRY, FISHING	3,350	4,210	860	25.7	580
450	790020	FOREST, CONSERVATION WORKERS	280	310	30	10.7	60
453	790110	GRADERS, SORTERS--AG PRODUCTS	690	810	120	17.4	130
454	790140	GARDENER, GROUNDSKEEPER-EX FARM	1,470	1,970	500	34.0	170
457	790990	OTHER AG, FORESTRY, FISHING	910	1,120	210	23.1	220
460	800000	PROD, CONST, OPER, MAT HANDLING	55,950	62,800	6,850	12.2	9,190
461	810000	FIRST-LINE SUP/MGR-BLUE COLLAR	3,050	3,380	330	10.8	560
462	810020	FIRST-LINE SUP/MGR-MECH, REPAIRERS	820	910	90	11.0	190
463	810050	FIRST-LINE SUP/MGR-CONSTRUCTION	620	710	90	14.5	100
464	810080	FIRST-LINE SUP/MGR-PRODUCTION	610	660	50	8.2	120
465	810110	FIRST-LINE SUP/MGR-TRANSPORTATION	150	150	0	0.0	20
466	810170	FIRST-LINE SUP/MGR-HELP, LABORERS	160	170	10	6.3	30
467	810990	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	690	780	90	13.0	100
468	830000	INSPECTORS, RELATED OCCUPATIONS	740	790	50	6.8	120
469	830020	INSPECTORS,TESTERS,& GRADERS,PREC	180	200	20	11.1	30
470	830050	PROD INSPECTORS, TESTERS, & GRADER	420	450	30	7.1	70
472	830990	INSPECTORS, TESTERS, RELATED, NEC	140	140	0	0.0	20
473	850000	MECHANICS, INSTALLERS, REPAIRERS	7,890	8,910	1,020	12.9	1,210
474	851000	MACHINERY AND RELATED MECHANICS	3,100	3,420	320	10.3	330
480	851190	MACHINERY MAINT MECHANICS, NEC	590	630	40	6.8	90
484	851320	MAINT REPAIRERS, GENL UTILITY	2,510	2,790	280	11.2	240
485	853000	MOBILE EQUIP MECHANICS, REPAIRERS	3,160	3,630	470	14.9	650
486	853020	AUTOMOTIVE MECHANICS	1,480	1,690	210	14.2	320
487	853050	AUTOMOTIVE BODY, RELATED REPAIRERS	340	410	70	20.6	70
489	853110	BUS AND TRUCK MECHANICS	560	630	70	12.5	110
490	853140	MOBILE HEAVY EQUIP MECH--EX ENGINE	220	240	20	9.1	50
492	853210	FARM EQUIPMENT MECHANICS	300	330	30	10.0	60
493	853230	AIRCRAFT MECHANICS	260	330	70	26.9	40
504	857000	OTHER ELECTRICAL EQUIP MECHANICS	350	370	20	5.7	50
505	857020	TELEPHONE, CABLE TV INSTALLERS	250	250	0	0.0	30
512	857230	ELECT POWERLINE INSTALLERS	100	120	20	20.0	20
516	859000	MISC MECH, INSTALLERS, REPAIRERS	1,280	1,490	210	16.4	180
517	859020	HEATING, AC, REFRIG MECHANICS	360	430	70	19.4	30



**TABLE 6  
OCCUPATIONAL PROJECTIONS**

**FRESNO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
525	859260	OFF MACH, CASH REGISTER SERVICERS	130	140	10	7.7	20
532	859530	TIRE REPAIRERS AND CHANGERS	200	220	20	10.0	70
534	859990	MECHS, INSTALLERS, REPAIRERS, NEC	590	700	110	18.6	60
535	870000	CONSTRUCTION TRADES	7,910	9,220	1,310	16.6	1,150
536	871000	CARPENTERS AND RELATED WORKERS	3,120	3,600	480	15.4	380
537	871020	CARPENTERS	2,150	2,450	300	14.0	280
539	871080	DRYWALL INSTALLERS	510	610	100	19.6	50
540	871110	TAPERS	240	290	50	20.8	30
541	871140	LATHERS	220	250	30	13.6	20
543	872000	ELECTRICIANS AND RELATED WORKERS	760	900	140	18.4	120
544	872020	ELECTRICIANS	760	900	140	18.4	120
545	873000	MASONS AND RELATED WORKERS	1,130	1,330	200	17.7	220
546	873020	BRICK MASONS	170	200	30	17.6	20
548	873080	HARD TILE SETTERS	180	220	40	22.2	30
549	873110	CONCRETE AND TERRAZZO FINISHERS	520	600	80	15.4	130
551	873170	PLASTERERS AND STUCCO MASONS	260	310	50	19.2	40
552	874000	PAINTERS AND RELATED WORKERS	660	780	120	18.2	100
553	874020	PAINTERS, PAPERHANGERS--CONST	660	780	120	18.2	100
554	875000	PLUMBERS AND RELATED WORKERS	990	1,180	190	19.2	140
555	875020	PLUMBERS, PIPEFITTERS, STEAMFITTER	600	720	120	20.0	100
557	875080	PIPELAYERS	190	210	20	10.5	20
558	875110	SEPTIC TANK, SEWER PIPE SERVICERS	200	250	50	25.0	20
563	877000	SELECTED ROAD, RAIL AND RELATED	210	230	20	9.5	30
566	877080	PAVING, TAMPING-EQUIP OPERATORS	210	230	20	9.5	30
569	878000	CONSTRUCTION TRADES, NEC	440	540	100	22.7	80
570	878020	INSULATION WORKERS	110	140	30	27.3	40
572	878080	ROOFERS	110	140	30	27.3	10
574	878140	STRUCTURAL METAL WORKERS	110	130	20	18.2	20
575	878170	FENCE ERECTORS	110	130	20	18.2	10
577	879000	EXTRACTIVE AND RELATED WORKERS	600	660	60	10.0	80
584	879210	ROUSTABOUTS	210	240	30	14.3	30
590	879990	CONST, EXTRACTIVE--EX HELPERS, NEC	390	420	30	7.7	50
591	890000	PRODUCTION OCCUPATIONS, PRECISION	5,200	5,880	680	13.1	990
592	891000	METAL WORKERS, PRECISION	950	1,080	130	13.7	210
595	891080	MACHINISTS	380	430	50	13.2	70
603	891320	SHEET METAL WORKERS	570	650	80	14.0	140
606	893000	WOODWORKERS, PRECISION	370	400	30	8.1	100
609	893080	WOOD MACHINISTS	120	130	10	8.3	30
610	893110	CABINETMAKER AND BENCH CARPENTER	250	270	20	8.0	70

# TABLE 6 OCCUPATIONAL PROJECTIONS

FRESNO COUNTY 1990 - 1997

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
636	898000	FOOD WORKERS, PRECISION	810	830	20	2.5	160
637	898020	SLAUGHTERERS AND BUTCHERS	490	480	-10	-2.0	100
638	898050	BAKERS--MANUFACTURING	150	170	20	13.3	20
639	898080	FOOD BATCHMAKERS	170	180	10	5.9	40
641	899000	OTHER PRECISION WORKERS	3,070	3,570	500	16.3	520
648	899210	DENTAL LAB TECHNICIANS, PRECISION	140	170	30	21.4	30
651	899990	WORKERS, PRECISION--NEC	2,930	3,400	470	16.0	490
652	910000	MACH SETTERS, SET-UP, OPS, TENDERS	3,700	4,030	330	8.9	560
653	911000	MACH TOOL CUTTING--METAL, PLASTIC	200	200	0	0.0	20
659	911170	MACH TOOL CUTTING OPS--METAL, PLAST	200	200	0	0.0	20
660	913000	MACH FORMING SETTERS--METAL, PLAST	170	190	20	11.8	40
667	913210	MACH FORMING OPS, TENDERS--MET, PLAST	170	190	20	11.8	40
702	925000	PRINTING, BINDING, RELATED WORKERS	150	160	10	6.7	20
713	925430	PRINTING PRESS MACHINE OPS, TENDER	150	160	10	6.7	20
717	927000	TEXTILE, RELATED SETTERS, OPS	750	880	130	17.3	120
723	927170	SEWING MACHINE OPERATORS--GARMENT	270	330	60	22.2	50
724	927210	SEWING MACHINE OPS--NON-GARMENT	110	140	30	27.3	20
726	927260	LNDRY, DRYCLEAN MACH OPS--EX PRESS	270	300	30	11.1	30
727	927280	PRESSING MACH OPS--TEXTILE, GARMENT	100	110	10	10.0	20
728	929000	MACH SETTER, SET-UP, OP--EX MET, PLAS	2,430	2,600	170	7.0	360
733	929140	PAPER GOODS MACH SETTER, SET-UP OPS	130	140	10	7.7	20
735	929210	ROASTING, BAKING MACH OPS--FOOD	110	110	0	0.0	20
736	929230	FURNACE, KILN, KETTLE OPS, TENDERS	100	100	0	0.0	10
746	929530	PAINTING, REL MACH OPS, TENDERS	150	150	0	0.0	30
750	929650	CRUSHING, MIXING MACH OPS, TNDRS	190	210	20	10.5	30
752	929710	EXTRUDING, FORMING MACH OPS, TNDRS	210	230	20	9.5	40
753	929740	PACKAGING, FILLING MACH OPS, TNDRS	890	950	60	6.7	120
754	929970	MACHINE SETTERS & SET-UP OPS, NEC	220	240	20	9.1	30
755	929980	MACHINE OPS AND TENDERS, NEC	430	470	40	9.3	60
756	930000	ASSEMBLERS AND FABRICATORS--HAND	4,480	4,850	370	8.3	570
765	939000	OTHER HAND WORKERS	4,480	4,850	370	8.3	570
770	939140	WELDERS AND CUTTERS	600	670	70	11.7	100
777	939350	CANNERY WORKERS	810	830	20	2.5	100
783	939530	GRINDING, POLISHING WORKERS--HAND	180	190	10	5.6	20
784	939560	ASSEMB, FABRICATORS--EX MACH, ELECT	1,480	1,560	80	5.4	150
785	939990	HAND WORKERS, NEC	1,410	1,600	190	13.5	200
786	950000	PLANT AND SYSTEM OCCUPATIONS	110	100	-10	-9.1	20
787	950020	WATER TREATMENT PLANT OPERATORS	110	100	-10	-9.1	20



**TABLE 6  
OCCUPATIONAL PROJECTIONS**

**FRESNO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1990	1997			
799	970000	TRANS, MATERIAL MOVING MACHINE OPS	9,110	10,220	1,110	12.2	1,230
800	971000	MOTOR VEHICLE OPERATORS	6,670	7,540	870	13.0	810
801	971020	TRUCK DRIVERS, HEAVY	2,820	3,080	260	9.2	530
802	971050	TRUCK DRIVERS, LIGHT	2,240	2,570	330	14.7	40
803	971080	BUS DRIVERS	120	140	20	16.7	10
804	971110	BUS DRIVERS--SCHOOL	410	500	90	22.0	40
805	971140	TAXI DRIVERS AND CHAUFFEURS	130	170	40	30.8	10
806	971170	DRIVER/SALES WORKERS	820	930	110	13.4	160
807	971990	MOTOR VEHICLE OPERATORS, NEC	130	150	20	15.4	20
826	978000	MISC TRANSPORTATION WORKERS	730	820	90	12.3	210
828	978050	SERVICE STATION ATTENDANTS	440	480	40	9.1	160
830	978990	TRANS AND RELATED WORKERS, NEC	290	340	50	17.2	50
831	979000	MATERIAL MOVEMENT EQUIP OPERATORS	1,710	1,860	150	8.8	210
847	979470	INDUSTRIAL TRUCK, TRACTOR OPERATORS	1,240	1,330	90	7.3	170
850	979560	OPERATING ENGINEERS	310	350	40	12.9	30
851	979890	MATERIAL MOVING EQUIP OPS, NEC	160	180	20	12.5	10
853	980000	HELPERS, LABORERS, HAND--EX AG	13,760	15,420	1,660	12.1	2,780
854	981000	MECHANIC AND REPAIRER HELPERS	390	430	40	10.3	90
856	983000	CONST TRADES, EXTRACTIVE--HELPERS	1,340	1,590	250	18.7	480
857	983110	HELPERS--BRICK, STONE MASONS	330	400	70	21.2	120
858	983120	HELPERS--CARPENTERS AND RELATED	510	590	80	15.7	180
860	983140	HELPERS--PAINTERS AND RELATED	150	180	30	20.0	50
861	983150	HELPERS--PLUMBERS AND RELATED	220	260	40	18.2	80
862	983160	HELPERS--ROOFERS	130	160	30	23.1	50
865	985000	MACHINE FEEDERS AND OFFBEARERS	870	900	30	3.4	170
867	987000	FREIGHT, STOCK, MAT MOVERS, HAND	1,890	2,110	220	11.6	780
869	987050	REFUSE COLLECTORS	540	570	30	5.6	80
870	987990	FREIGHT, MATERIAL MOVERS-HAND, NEC	1,350	1,540	190	14.1	700
871	989000	MISC HELPERS, LABORERS--HAND	9,270	10,390	1,120	12.1	1,260
872	989020	HAND PACKERS AND PACKAGERS	1,350	1,500	150	11.1	200
873	989050	VEHICLE WASHERS, EQUIP CLEANERS	850	990	140	16.5	100
874	989990	MISC HELPERS, LABORERS--HAND, NEC	7,070	7,900	830	11.7	960
875		OCCUPATIONS NOT CLASSIFIED	520	1,490	970	186.5	



## DESCRIPTION OF TABLES

**Table 1 -- EMPLOYMENT BY MAJOR INDUSTRY**

This table shows 1983 and 1990 estimated employment and 1997 projected employment along with the percentage of total employment for each major industry division.

**EMPLOYMENT** includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the government sector, employment includes all civilian employees regardless of their activities in which they are engaged. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system.

**INDUSTRY** is a group of firms which engage in similar economic activities. The Standard Industrial Classification (SIC) system was used to categorize industries.

**INDUSTRY DIVISIONS** group industries into nine major categories, according to the economic activity involved. An industry division refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services.

The nine industry divisions are defined as follows:

**MINING (SIC 10-14)** includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

**CONSTRUCTION (SIC 15-17)** includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

**MANUFACTURING (SIC 20-39)** includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

**TRANSPORTATION AND PUBLIC UTILITIES (SIC 40-49)** includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

**WHOLESALE TRADE (SIC 50-52)** includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

**RETAIL TRADE (SIC 53-59)** includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

**FINANCE, INSURANCE, AND REAL ESTATE (SIC 60-67)** includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

SERVICES (SIC 70-89) includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

GOVERNMENT includes the legislative, judicial, administrative, and regulatory activities of federal, state, local, and international governments. It also includes federal, state, and local government hospitals and education.

## **Table 2 -- EMPLOYMENT BY INDUSTRY**

This table shows employment and projected employment by industry. The number of jobs is estimated for 1990 and projected for 1997. The column entitled "SIC" lists the Standard Industrial Classification code for each industry grouping. The column labeled "*Absolute Change*" provides the projected change in employment between 1990 and 1997. The "*Percent Change*" column is the estimated growth rate over the seven-year period.

## **Table 3 -- EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP**

This table shows 1990 and 1997 employment and projected employment for the seven major occupational groups. The "*Percent of Total*" column displays the percentage of total employment each major occupational group represents. The "*Absolute Change*" column gives the number of job opportunities resulting from the creation of new jobs. "*Percent Change*" shows the percentage change for each occupational group.

**OCCUPATIONAL GROUPS** are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 700 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system.

The seven major occupational groups are defined as follows:

**MANAGERS AND ADMINISTRATIVE** occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing, or controlling the activities of a firm. First-line supervisors are excluded from this category.

**PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL** occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

**SALES AND RELATED** occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

**CLERICAL AND ADMINISTRATIVE SUPPORT** occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.



SERVICE OCCUPATIONS prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

AGRICULTURAL, FORESTRY, AND FISHING occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING are skilled, semiskilled, and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair, and material handling operations.

#### **Table 4 -- OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH**

This table lists the occupations that are projected to register the largest absolute change between 1990 and 1997. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1990-1997 period.

#### **Table 5 -- OCCUPATIONS WITH THE FASTEST JOB GROWTH**

This table lists the occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and, therefore, are not found in the list of occupations that will add the most new jobs.

#### **Table 6 -- OCCUPATIONAL EMPLOYMENT PROJECTIONS**

This table provides occupational detail for up to 700 occupations. Annual average employment in each occupation is shown for 1990 and 1997. The column headed "*Absolute Change*" presents the number of job opportunities resulting from the creation of new jobs. The "*Percent Change*" column shows the percentage change for each occupation. The next column, "*Openings Due to Separations*", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

#### **Line numbers in Table 6**

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this publication may be used to locate individual occupations in the detailed table. The same line numbers are used in statewide and area reports. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment, or employment below the area's cutoff point for publishing.



## **METHODS AND ECONOMIC ASSUMPTIONS**

### **OVERVIEW**

Changes in occupational employment over time result from two principal sources. Changes in the number, size, and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances in production and changes in regulations will affect the occupational mix. In developing occupational employment projections, both of these components must be addressed. Following is a discussion of how employment projections are developed, beginning with a description of data sources followed by a description of the steps involved.

### **PRINCIPAL DATA SOURCES**

#### Employment by Industry

The Employment Development Department (EDD) collects payroll data from all private employers and government entities covered under the unemployment insurance, disability insurance, and personal income tax programs. Excluded from these data are the self-employed, unpaid family workers, and private household workers. Each reporting unit is classified by EDD according to the Standard Industrial Classification (SIC) System. The SIC system consists of three levels of detail: the two-digit major industry division, the three-digit sub-industry division, and the four-digit specific industry division. All data are identified by the county in which reported jobs are located, and are collected for each month of the year.

#### Occupational Staffing Patterns

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is a periodic mail survey of nonfarm employers conducted by EDD in cooperation with U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 700 occupations at the four-digit SIC level of detail.

The OES data used in this report were collected over a three-year period (1989-91), with manufacturing establishments surveyed the first year, nonmanufacturing establishments in the second year, and trade and government establishments in the third year.

### **PROJECTIONS BY INDUSTRY**

The industry projections included in this report were developed in two phases. First, projections were developed at a summary industry level based on two-digit to three-digit SIC classifications. The second phase was to disaggregate these projections to the four-digit industry level.

In the first phase, industry projections were based on the historical relationship between an area's employment in a given industry and California employment in that

industry. In the model used, area employment by industry was specified as a function of California employment in the same or a related industry, and total employment in the area. Area specific total employment was included as an independent variable to capture the employment effects accruing to an industry resulting from the expected overall performance of the local economy compared to the state over the projection period. The local total employment projection used in this phase was based on its relationship to statewide total employment over time, while the California industry projections used were developed as part of the statewide projections process.

As noted above, in the second phase of this process, the summary level industry projections were disaggregated into their four-digit components using the proportions for the base year, 1990. The resulting four-digit projections were reviewed and adjusted if it was determined that a particular four-digit industry would likely grow faster or slower than its associated summary industry total. Last, the four-digit projections were adjusted to group private and public hospital and education employment for consistency with the OES survey.

### **PROJECTIONS BY OCCUPATION**

The distribution of industry employment by occupation is performed in three steps. OES survey responses are summarized by industry and firm size and matched with each SIC and firm size combination in the local area. In cases where local OES responses are not available, either statewide responses or another area's responses are substituted. The survey data are then expanded to the annual average employment level for each industry. This results in estimates of employment by occupation within the four-digit SICs for the base year, 1990.

Next, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by four-digit SIC for the target year, 1997. Target year staffing patterns are applied to the industry employment projections to produce occupational employment projections within four-digit SIC. Data by occupation are then summed to get the 1990 and 1997 occupational estimates. The difference between the 1990 occupational estimates and the 1997 projections represents the net job openings resulting from industry growth and from technological and regulatory changes.

Last, it is important to account for openings that result from net separations. Net separations approximate the number of persons who permanently leave an occupation. They quantify the need for new entrants, and if training is required, identify the minimum training requirements.

There is a separation rate for each OES occupation. The rate is applied to the average estimated employment for an occupation over the projection period and yields an average annual estimate of separations in an occupation. This estimate is then multiplied by the number of years in the projection period to get the number of projected net separations for the occupation.



The Bureau of Labor Statistics has recently completed a research project that provided new separation rates. The rates were developed using a new methodology which differs significantly from that used in the past. This new method is described in *Total and Net Occupational Separations: A Report on Recent Research (Bureau of Labor Statistics, August 1991)*. A copy of this report can be obtained from the Bureau of Labor Statistics, Office of Employment Projections, Washington, D.C. 20212-0001.

## **ECONOMIC ASSUMPTIONS**

The industry and occupational projections in this report are based on the following assumptions:

- a. The institutional framework of the U.S. economy will not change radically.
- b. Recent technological and scientific trends will continue.
- c. The long-term employment patterns will continue in most industries.
- d. Federal, state, and local government agencies will continue to operate under budgetary constraints.
- e. No major events will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- f. Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- g. Attitudes toward work, education, income, and leisure will not change significantly.



## ALPHABETICAL INDEX OF OCCUPATIONS

The alphabetical index of occupations is designed to aid in locating individual occupations in the detailed occupational table.

The first column of the index lists, in alphabetical order, each occupation of the detailed occupational employment table (TABLE 6).

The second column lists the line number which is used to locate individual occupations. This number is unique to each OES occupation and appears in column #1 of the detailed table.

The third column indicates the OES code of the occupation. Note that not all occupations will appear in all counties.

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	821	975140
ACCOUNTANTS AND AUDITORS	29	211140
ACCOUNTANTS, AUDIT, FINANCE SPECS	24	211000
ACTUARIES	110	253130
ADJUDICATORS, JUDICIAL REVIEWERS	133	281050
ADJUSTMENT CLERKS	283	531230
ADMINISTRATIVE SERVICES MANAGERS	7	130140
ADVERTISING CLERKS	306	539080
AERONAUT, ASTRONAUTICAL ENGINEERS	52	221020
AG, FORESTRY, FISHING--NEC	459	799990
AGRICULTURAL AND FOOD SCIENTISTS	90	243050
AGRICULTURAL ENGINEERS	59	221230
AGRICULTURAL, FORESTRY, FISHING	440	700000
AIR DISPATCHERS, AIR TRAFFIC CONTR	241	390020
AIR HAMMER OPERATORS	564	877020
AIR TRANSPORTATION WORKERS	824	977000
AIRCRAFT ASSEMBLERS--PRECISION	758	931020
AIRCRAFT ENGINE SPECIALISTS	494	853260
AIRCRAFT MECHANICS	493	853230
AIRCRAFT PILOTS, FLIGHT ENGINEERS	825	977020
AMUSEMENT, RECREATION ATTENDANTS	429	680140
ANIMAL CARETAKERS--EXCEPT FARM	456	790170
ANNOUNCERS--EX RADIO, TELEVISION	225	340210
ANNOUNCERS--RADIO AND TELEVISION	224	340170
APPRAISERS--REAL ESTATE	253	430110
ARCHITECTS AND SURVEYORS	67	223000
ARCHITECTS--EX LANDSCAPE, MARINE	68	223020
ART, DRAMA, MUSIC TEACHERS	153	312180
ARTISTS AND RELATED WORKERS	230	340350
ASSEMB, FABRICATORS--EX MACH,ELECT	784	939560
ASSEMBLERS AND FABRICATORS--HAND	756	930000
ASSEMBLERS, NEC--PRECISION	764	931970
ASSEMBLERS, PRECISION	757	931000
ASSESSORS	47	219170
ATHLETES, COACHES, UMPs, RELATED	239	340580
ATMOSPHERIC AND SPACE SCIENTISTS	85	241080



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
AUDIO-VISUAL SPECIALISTS	171	315080
AUTOMOTIVE BODY, RELATED REPAIRERS	487	853050
AUTOMOTIVE MECHANICS	486	853020
AUXILIARY EQUIP OPERATORS-POWER	794	950230
BAGGAGE PORTERS AND BELLHOPS	432	680230
BAILIFFS	379	630230
BAKERS--BREAD AND PASTRY	396	650210
BAKERS--MANUFACTURING	638	898050
BANKING, SECURITY, FINANCE, CREDIT	275	531000
BARBERS	425	680020
BARTENDERS	391	650050
BICYCLE REPAIRERS	531	859510
BILL AND ACCOUNT COLLECTORS	295	535080
BILLING, COST, AND RATE CLERKS	328	553440
BILLING, POSTING, CALC MACHINE OPS	331	560020
BINDERY MACH SETTERS, SET-UP OPS	710	925250
BINDERY MACHINE OPERATORS	715	925460
BIOLOGICAL SCIENTISTS	91	243080
BIOLOGICAL, AGRIL, FOOD TECHS	95	245020
BLASTERS AND EXPLOSIVES WORKERS	579	879050
BOILER OPS, TENDERS--LOW PRESSURE	737	929260
BOILERMAKERS	604	891350
BOOKBINDERS	634	897210
BOOKKEEPING, ACCOUNTING CLERKS	326	553380
BRATTICE BUILDERS	542	871210
BRICK MASONS	546	873020
BRIDGE, LOCK, LIGHTHOUSE TENDERS	827	978020
BROADCAST NEWS ANALYSTS	223	340140
BROADCAST TECHNICIANS	228	340280
BROKERAGE CLERKS	285	531280
BROKERS--REAL ESTATE	251	430050
BUDGET ANALYSTS	30	211170
BUS AND TRUCK MECHANICS	489	853110
BUS DRIVERS	803	971080
BUS DRIVERS--SCHOOL	804	971110
BUTCHERS AND MEAT CUTTERS	397	650230
CABINETMAKERS AND BENCH CARPENTERS	610	893110
CAMERA OPERATORS	629	897130
CAMERA OPS--TV AND MOTION PICTURE	227	340260
CAMERA, PHOTO EQUIP REPAIRERS	521	859140
CANNERY WORKERS	777	939350
CAPTAINS--WATER VESSEL	817	975020
CARDIOLOGY TECHNOLOGISTS	212	329250
CARPENTERS	537	871020
CARPENTERS AND RELATED WORKERS	536	871000
CARPET CUTTERS, DIAGR, SEAMERS	776	939320
CARPET INSTALLERS	560	876020
CARPET, FLOOR INSTALLERS	559	876000
CASHIERS	268	490230
CEILING TILE INSTALLERS	538	871050
CEMENTING, GLUING MACH OPS, TENDERS	747	929560
CENTRAL OFFICE AND PBX INSTALLERS	498	855020
CENTRAL OFFICE OPERATORS	343	571080
CHEM TECHS--EXCEPT HEALTH	96	245050



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL ENGINEERS	56	221140
CHEMICAL EQUIP CONTROLLERS, OPS	740	929350
CHEMICAL EQUIPMENT TENDERS	741	929380
CHEMICAL PLANT, SYSTEM OPERATORS	789	950080
CHEMISTRY TEACHERS	147	312040
CHEMISTS, EXCEPT BIOCHEMISTS	84	241050
CHILD CARE WORKERS	437	680380
CHIROPRACTORS	182	321130
CHOKE SETTERS	445	730050
CIVIL ENGINEERING TECHNICIANS	73	225020
CIVIL ENGINEERS--INCLUDING TRAFFIC	58	221210
CLAIMS EXAMINERS--INSURANCE	48	219210
CLAIMS TAKERS--UNEMP BENEFITS	37	215020
CLEANING, BLDING SERV EX PRIV HOUS	418	670000
CLEANING, BLDING SERV--EX PH, NEC	423	670990
CLEANING, PICKLING EQUIP OPS,TNDRS	748	929580
CLERGY	127	275020
CLERICAL & ADMIN SUP WRKERS, NEC	364	599990
CLERICAL, ADMIN SUPPORT, NEC	363	590000
CLERICAL, ADMINISTRATIVE SUPPORT	272	500000
COIL WINDERS, TAPERS, FINISHERS	768	939080
COIN, VENDING MACHINE SERVICERS	530	859470
COMB MACH TOOL OPS--METAL, PLASTIC	671	915080
COMB MACH TOOL SETTERS--MET, PLAST	670	915050
COMBINED FOOD PREP AND SERVICE	403	650410
COMM EQUIPMENT MECHANICS	497	855000
COMM EQUIPMENT MECHANICS, NEC	503	855990
COMM, TRANS, UTIL OPER MGRS	16	150230
COMMUNICATION EQUIP OPERATORS, NEC	345	571990
COMMUNICATION EQUIPMENT OPERATORS	340	571000
COMMUNICATIONS, MAIL DISTRIBUTION	339	570000
COMPL, ENFORCE INSPECT--EX CONST	45	219110
COMPUTER ENGINEERS	61	221270
COMPUTER OPS--EX PERIPHERAL EQUIP	334	560110
COMPUTER PROGRAMMERS, INCL AIDES	103	251051
COMPUTER SCIENCE TEACHERS	156	312260
COMPUTER SCIENTISTS AND RELATED	101	251000
COMPUTER SCIENTISTS, REL WRKRS,NEC	105	251990
COMPUTER, MATH, OPS RESRCH, RELATED	100	250000
CONCRETE AND TERRAZZO FINISHERS	549	873110
CONST AND BUILDING INSPECTORS	44	219080
CONST TRADES, EXTRACTIVE--HELPERS	856	983000
CONST, EXTRACTIVE--EX HELPERS, NEC	590	879990
CONSTRUCTION MANAGERS	14	150170
CONSTRUCTION TRADES	535	870000
CONSTRUCTION TRADES WORKERS, NEC	576	878990
CONSTRUCTION TRADES, NEC	569	878000
CONTINUOUS MINING MACHINE OPERATOR	586	879410
CONVEYOR OPERATORS AND TENDERS	848	979510
COOKING MACH OPS,TNDRS-FOOD,TOBACC	734	929170
COOKS--INSTITUTION OR CAFETERIA	399	650280
COOKS--RESTAURANT	398	650260
COOKS--SHORT ORDER	401	650350
COOKS--SPECIALTY FAST FOOD	400	650320



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOLING, FREEZING EQUIP OPS, TNDRS	738	929280
CORRECTION OFFICERS, JAILERS	377	630170
CORRECTIVE, MANUAL ARTS THERAPISTS	189	323110
CORRESPONDENCE CLERKS	319	553170
COST ESTIMATORS	42	219020
COUNTER AND RENTAL CLERKS	266	490170
COUNTER ATTENDANTS--FOOD	395	650170
COURT CLERKS	297	537020
CRANE AND TOWER OPERATORS	846	979440
CREDIT ANALYSTS	26	211050
CREDIT AUTHORIZERS	280	531140
CREDIT CHECKERS	281	531170
CRIMINAL INVESTIGATORS, FEDERAL	381	630280
CROSSING GUARDS	386	630440
CRUSHING, MIXING MACH OPS, TNDRS	750	929650
CURATORS, ARCHIVISTS, AND RELATED	172	315110
CUSTOM TAILORS AND SEWERS	615	895050
CUSTOMER SERVICE REPS--UTILITIES	325	553350
CUT, FORM, FAB, PROC MACH SETTER	694	921970
CUT, FORM, FAB, PROCESS MACH OPS	695	921980
CUT, SLICING MACH SETTERS, SET-UP	742	929410
CUTTERS AND TRIMMERS--HAND	774	939260
CUTTING, SLICING MACH OPS, TNDRS	743	929440
DAIRY PROC EQUIP OPS--INC SETTERS	739	929320
DANCERS AND CHOREOGRAPHERS	237	340530
DATA ENTRY KEYERS--EX COMPOSING	336	560170
DATA KEYERS--COMPOSING	337	560210
DATA PROCESSING EQUIP REPAIRERS	506	857050
DEMONSTRATORS, PROMOTERS, MODELS	270	490320
DENTAL ASSISTANTS	406	660020
DENTAL HYGIENISTS	206	329080
DENTAL LAB TECHNICIANS, PRECISION	648	899210
DENTISTS	179	321050
DERRICK OPS--OIL, GAS EXTRACTION	582	879140
DESIGNERS, EX INTERIOR AND FLORAL	232	340382
DETAIL DESIGN DECORATORS, PAINTERS	645	899110
DETECTIVES, INVESTIGATORS--EX PUB	383	630350
DIETETIC TECHNICIANS	202	325230
DIETITIANS AND NUTRITIONISTS	201	325210
DINING RM ATTENDANTS, BAR HELPERS	394	650140
DIRECTORS--RELIG ACTIVITIES, EDUC	128	275050
DIRECTORY ASSISTANCE OPERATORS	342	571050
DISPATCH--EX POLICE, FIRE, AMBUL	353	580050
DISPATCH--POLICE, FIRE, AMBULANCE	352	580020
DRAFTERS	77	225140
DRAGLINE OPERATORS	840	979260
DREDGE OPERATORS, DIPPER TENDERS	841	979280
DRILLING MACH SETTER--METAL, PLASTI	656	911080
DRIVER/SALES WORKERS	806	971170
DRYWALL INSTALLERS	539	871080
DUPLICATING MACHINE OPERATORS	332	560050
DYERS, PRECISION	620	895210
EARTH DRILLERS, EXCEPT OIL AND GAS	578	879020
ECONOMISTS--INCL MKT RESRCH ANALYS	116	271020



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
EDP AND OFFICE MACHINE OCCUPATIONS	330	560000
EDUCATION ADMINISTRATORS	10	150050
ELEC INSTALLERS--TRANS EQUIPMENT	514	857280
ELECT AND ELECTRONIC ENGINEERS	60	221260
ELECT EQUIP MECHANICS, NEC	515	857990
ELECT HOME ENTERTAINMENT REPAIRERS	507	857080
ELECT METER INSTALLERS, REPAIRERS	520	859110
ELECT MOTOR, AND RELATED REPAIRERS	509	857140
ELECT POWERLINE INSTALLERS	512	857230
ELECT REPAIRERS--COMMERCIAL	510	857170
ELECT, ELECTRONIC ENGINEERING TECH	74	225050
ELECTRICAL EQUIP ASSEMBLERS--PREC	762	931140
ELECTRICAL, ELECTRONIC ASSEMBLERS	767	939050
ELECTRICIANS	544	872020
ELECTRICIANS AND RELATED WORKERS	543	872000
ELECTROCARDIOGRAPH TECHNICIANS	213	329260
ELECTROLYTIC PLATING, MACH OPS	685	919210
ELECTROLYTIC PLATING, MACH SETTER	684	919170
ELECTROMECH EQUIP ASSEMBLERS--PREC	761	931110
ELECTROMED, BIOMEDL EQUIP REPAIRER	519	859080
ELECTRONEURODIAGNOSTIC TECHNOLOGIS	211	329230
ELECTRONIC PAGINATION SYSTEM WKRS	626	897070
ELECTRONIC SEMICONDUCTOR PROCESSOR	729	929020
ELEVATOR INSTALLERS AND REPAIRERS	527	859320
ELEVATOR OPERATORS	422	670110
EMBALMERS	245	390140
EMERGENCY MEDICAL TECHNICIANS	196	325080
EMPL INTERVIEWERS--PRIV OR PUB	39	215080
ENGINEER, MATH, AND NAT SCI MGRS	8	130170
ENGINEERING TEACHERS	154	312220
ENGINEERING, RELATED TECHNICIANS	72	225000
ENGINEERING, RELATED TECHS, NEC	80	225990
ENGINEERS	51	221000
ENGINEERS, ARCHITECTS, SURVEYORS	50	220000
ENGINEERS, NEC	66	221990
ENGLISH, FOREIGN LANGUAGE TEACHERS	152	312160
ENGRAVING, PRINTING WORKERS--HAND	782	939510
ESTIMATORS, DRAFTERS--UTILITIES	78	225170
ETCHERS, ENGRAVERS--PRECISION	602	891280
EXCAVATING, LOADING MACHINE OPS	839	979230
EXTRACTIVE AND RELATED WORKERS	577	879000
EXTRACTIVE WORKERS--EX HELPERS, NE	589	879890
EXTRUDING MACH OPS, TNDRS--SYN/GLAS	720	927080
EXTRUDING MACH SETTERS--METAL, PLAS	664	913110
EXTRUDING, FORMING MACH OPS, TNDRS	752	929710
EXTRUDING, FORMING, SETTERS, SET-U	751	929680
FALLERS AND BUCKERS	444	730020
FARM AND HOME MANAGEMENT ADVISORS	166	313230
FARM EQUIPMENT MECHANICS	492	853210
FARM EQUIPMENT OPERATORS	456	790210
FENCE ERECTORS	575	878170
FILE CLERKS	320	553210
FILM EDITORS	229	340320
FINANCIAL ANALYSTS, STATISTICAL	111	253150



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FINANCIAL MANAGERS	3	130020
FINANCIAL SPECIALISTS, NEC	31	211990
FIRE FIGHTERS	374	630080
FIRE FIGHTING & PREVENTION SUPS	367	610020
FIRE INSPECTORS	372	630020
FIRST-LINE SUP/MGR SERV WKRS, NEC	370	610990
FIRST-LINE SUP/MGR--AG, FOR, FISH	441	720000
FIRST-LINE SUP/MGR--SALES	248	410000
FIRST-LINE SUP/MGR--SERVICE	366	610000
FIRST-LINE SUP/MGR-BLUE COLLAR	461	810000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	467	810990
FIRST-LINE SUP/MGR-CONSTRUCTION	463	810050
FIRST-LINE SUP/MGR-HELP, LABORERS	466	810170
FIRST-LINE SUP/MGR-MECH, REPAIRERS	462	810020
FIRST-LINE SUP/MGR-PRODUCTION	464	810080
FIRST-LINE SUP/MGR-TRANSPORTATION	465	810110
FIRST-LINE SUP/MGR, CLERK, ADM SUP	273	510000
FIRST-LINE SUPERVISORS - AGRICULTU	442	720020
FISH AND GAME WARDENS	385	630410
FITTERS, STRUCTURAL METAL--PREC	760	931080
FLIGHT ATTENDANTS	433	680260
FLOOR LAYERS--EX CARPET, WOOD, TILES	561	876050
FLOOR SANDING MACHINE OPERATORS	562	876080
FLORAL DESIGNERS	231	340381
FOOD AND TOBACCO WORKERS, NEC	640	898990
FOOD BATCHMAKERS	639	898080
FOOD PREPARATION WORKERS	402	650380
FOOD SERVERS--OUTSIDE	393	650110
FOOD SERVICE MANAGERS	17	150261
FOOD SERVICE WORKERS, NEC	404	650990
FOOD WORKERS, PRECISION	636	898000
FOOD, BEV PREP AND SERVICE OCCS	389	650000
FOREST FIRE INSPECT, PREVENT SPECS	373	630050
FOREST, CONSERVATION WORKERS	450	790020
FORESTERS, CONSERVATION SCIENTISTS	89	243020
FORGING MACH SETTERS--METAL, PLAST	666	913170
FOUNDRY MOLD ASSEMBLY, SHAKEOUT	683	919140
FOUNDRY MOLD, CORE MAKERS, PRECISION	642	899020
FRAME WIRERS, CENTRAL OFFICE	499	855050
FREIGHT, MATERIAL MOVERS-HAND, NEC	870	987990
FREIGHT, STOCK, MAT MOVERS, HAND	867	987000
FUNERAL ATTENDANTS	438	680410
FUNERAL DIRECTORS AND MORTICIANS	244	390110
FURNACE OPERATORS AND TENDERS	690	919350
FURNACE, KILN, KETTLE OPS, TENDERS	736	929230
FURNITURE FINISHERS	611	893140
GARDENERS, GROUNDSKEEPERS-EX FARM	454	790140
GAS COMPRESSOR OPERATORS	838	979210
GAS PLANT OPERATORS	788	950050
GAS PUMPING STATION OPERATORS	837	979170
GAUGERS	792	950170
GEM AND DIAMOND WORKERS	650	899260
GENERAL MANAGERS, TOP EXECUTIVES	20	190050
GENERAL OFFICE CLERKS	329	553470



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	86	241110
GLAZIERS	573	878110
GLAZIERS, MANUFACTURING	769	939110
GRADER, DOZER, SCRAPER OPERATORS	844	979380
GRADERS, SORTERS--AG PRODUCTS	453	790110
GRADUATE ASSISTANTS, TEACHING	145	311170
GRINDING MACH SETTER--METAL, PLASTI	658	911140
GRINDING, POLISHING WORKERS--HAND	783	939530
GUARDS AND WATCH GUARDS	387	630470
GUIDES	430	680170
HAIRDRESSERS, HAIRSTYLISTS	426	680050
HAND COMPOSITORS AND TYPESETTERS	623	897020
HAND PACKERS AND PACKAGERS	872	989020
HAND WORKERS--JEWELERY, PRECISION	601	891260
HAND WORKERS, NEC	785	939990
HARD TILE SETTERS	548	873080
HEAD SAWYERS	698	923050
HEALTH CARE MAINTENANCE, TREATING	193	325000
HEALTH CARE PROFS, PARAPROFS, NEC	217	329990
HEALTH DIAGNOSING, TREATING	177	321000
HEALTH DIAGNOSING, TREATING, NEC	184	321990
HEALTH PRACTITIONERS, TECHS, RELAT	176	320000
HEALTH SERVICE WORKERS, NEC	417	660990
HEALTH SERVICE, RELATED OCCS	406	660000
HEALTH SPECIALITIES TEACHERS	151	312120
HEAT TREATING MACH OPS, TENDERS	689	919320
HEATERS, METAL & PLASTIC	691	919380
HEATING EQUIP SETTERS-METAL, PLAST	688	919280
HEATING, AC, REFRIG MECHANICS	517	859020
HELPERS--BRICK,STONE MASONS	857	983110
HELPERS--CARPENTERS AND RELATED	858	983120
HELPERS--CONSTRUCTION TRADES, NEC	863	983190
HELPERS--ELECT, POWERLINE INSTALL	859	983130
HELPERS--EXTRACTIVE WORKERS	864	983230
HELPERS--PAINTERS AND RELATED	860	983140
HELPERS--PLUMBERS AND RELATED	861	983150
HELPERS--ROOFERS	862	983160
HELPERS, LABORERS, HAND--EX AG	853	980000
HIGHWAY MAINTENANCE WORKERS	567	877110
HOIST AND WINCH OPERATORS	845	979410
HOME APPLIANCE AND POWER TOOL REPA	508	857111
HOME HEALTH CARE WORKERS	409	660110
HOSTS, HOSTESSES--RESTAURANTS	390	650020
HOTEL DESK CLERKS	303	538080
HOUSEKEEPING SUPERVISORS	369	610080
HUMAN SERVICES WORKERS	124	273080
INDUST ENGINEERING TECHS	75	225080
INDUST ENGINEERS--EXCEPT SAFETY	62	221280
INDUSTRIAL PRODUCTION MANAGERS	13	150140
INDUSTRIAL TRUCK,TRACTOR OPERATORS	847	979470
INDUSTRY SPECIFIC CLERICAL, ADMIN	274	530000
INS ADJUST, EXAMIN, INVESTIGATORS	287	533020
INSPECTORS, RELATED OCCUPATIONS	468	830000
INSPECTORS, TESTERS, RELATED, NEC	472	830990



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
INSPECTORS, TESTERS, & GRADERS, PRECISION	469	830020
INSTALLER & REPAIRER, MOBILE HOME	529	859380
INSTRUCTIONAL AIDES	175	315211
INSTRUCTIONAL COORDINATORS	174	315170
INSTRUCTORS AND COACHES--SPORTS	165	313210
INSTRUCTORS--NON-VOC EDUCATION	164	313170
INSTRUMENT MAKERS, PRECISION	594	891050
INSTRUMENT REPAIRERS, PRECISION	518	859050
INSULATION WORKERS	570	878020
INSURANCE APPRAISERS--AUTO DAMAGE	288	533050
INSURANCE CLAIMS CLERKS	290	533110
INSURANCE EXAMINING CLERKS	289	533080
INSURANCE POLICY PROCESSING CLERKS	291	533140
INSURANCE WORKERS	286	533000
INTERIOR DESIGNERS	233	340410
INTERVIEW CLERKS--EX PERS, WELFARE	324	553320
INVESTIGATIVE, RELATED, EX INSUR	292	535000
INVESTIGATORS--CLERICAL	294	535050
JANITORS, CLEANERS--EXCEPT MAIDS	420	670050
JEWELERS AND SILVERSMITHS	600	891230
JOB PRINTERS	624	897050
JUDGES AND MAGISTRATES	132	281020
LANDSCAPE ARCHITECTS	70	223080
LATHE MACH SETTERS--METAL, PLASTIC	655	911050
LATHERS	541	871140
LAW AND RELATED OCCUPATIONS	130	280000
LAW CLERKS	136	283020
LAWYERS	134	281080
LAWYERS AND RELATED WORKERS	131	281000
LAYOUT WORKERS--METAL, PRECISION	598	891170
LECTURERS	143	311110
LEGAL ASSTS, TECHS--EX CLER, NEC	140	283990
LEGAL ASSTS, TECHS, EX CLERICAL	135	283000
LETTERPRESS SETTERS, SET-UP OPS	705	925150
LIBRARIANS--PROFESSIONAL	169	315020
LIBRARIANS, ARCHIVISTS AND RELATED	168	315000
LIBRARY ASSTS & BOOKMOBILE DRIVERS	305	539020
LICENSE CLERKS	299	537080
LICENSED VOCATIONAL NURSES	195	325050
LIFE SCIENCES TEACHERS	146	312020
LIFE SCIENTISTS	88	243000
LIFE SCIENTISTS, NEC	93	243990
LITHO AND PHOTOENGRAVING WORKERS	633	897190
LITHOGRAPHY & PHOTOENGRAVING--PREC	627	897080
LNDRY, DRYCLEAN MACH OPS--EX PRESS	726	927260
LOADING MACHINE OPS--MINING	842	979320
LOAN AND CREDIT CLERKS	282	531210
LOAN INTERVIEWERS	279	531110
LOAN OFFICERS AND COUNSELORS	27	211080
LOCKSMITHS AND SAFE REPAIRERS	524	859230
LOCOMOTIVE ENGINEERS	810	973050
LOCOMOTIVE FIRERS	812	973110
LODGING AND TRAVEL WORKERS	300	538000
LODGING MANAGERS	18	150262



## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
LOG GRADERS AND SCALERS	452	790080
LOG HANDLING EQUIPMENT OPERATORS	446	730080
LOGGING TRACTOR OPERATORS	447	730110
LONGSHORE EQUIPMENT OPERATORS	832	979020
MACH BLDG, OTH PREC MACH ASSEMBLER	759	931050
MACH FORMING OPS, TENDERS--MET, PLAS	687	913210
MACH FORMING SETTERS--METAL, PLASTI	660	913000
MACH SETTER, SET-UP, OP--EX MET, PLAS	728	929000
MACH SETTERS, SET-UP, OPS, TENDERS	652	910000
MACH TOOL CUTTING OPS--METAL, PLAST	659	911170
MACH TOOL CUTTING--METAL, PLASTIC	653	911000
MACH TOOL SETTERS, OPS--METAL, PLAS	668	915000
MACHINE ASSEMBLERS	766	939020
MACHINE FEEDERS AND OFFBEARERS	865	985000
MACHINE FEEDERS AND OFFBEARERS, NE	866	985020
MACHINE OPERATORS AND TENDERS, NEC	755	929980
MACHINE SETTERS & SET-UP OPS, NEC	754	929970
MACHINERY AND RELATED MECHANICS	474	851000
MACHINERY MAINT MECHANICS, NEC	480	851190
MACHINERY MAINTENANCE WORKERS	483	851280
MACHINISTS	595	891080
MAIDS AND HOUSEKEEPING CLEANERS	419	670020
MAIL CLKS-EX MAIL MACH OPS, POSTAL	347	573020
MAIL MACH OPS--PREP AND HANDLING	333	560080
MAIL, MESSAGE DISTRIBUTION WORKERS	346	573000
MAIN LINE STATION ENGINEERS	836	979140
MAINT MECHANICS--MARINE EQUIP	477	851160
MAINT MECHANICS--WATER, POWER	479	851180
MAINT REPAIRERS, GENL UTILITY	484	851320
MAINTENANCE MECHANICS--SEWING MACH	476	851130
MAINTENANCE MECHANICS--TEXTILE	475	851120
MANAGEMENT ANALYSTS	43	219050
MANAGEMENT SUPPORT OCCUPATIONS	23	210000
MANAGEMENT SUPPORT WORKERS, NEC	49	219990
MANAGERS AND ADMINISTRATORS, NEC	21	199990
MANICURISTS	427	680080
MARINE ARCHITECTS	69	223050
MARINE ENGINEERS	65	221380
MARKING CLERKS	358	580210
MASONS AND RELATED WORKERS	545	873000
MATERIAL MOVEMENT EQUIP OPERATORS	831	979000
MATERIAL MOVING EQUIP OPS, NEC	851	979890
MATERIAL RECORDING, DISPATCHING	351	580000
MATERIAL RECORDING, RELATED, NEC	362	580990
MATES--SHIP, BOAT, AND BARGE	818	975050
MATH SCIENTISTS AND RELATED	106	253000
MATHEMATICAL SCIENCES TEACHERS	155	312240
MATHEMATICAL SCIENTISTS	108	253100
MATHEMATICAL SCIENTISTS, NEC	112	253190
MATHEMATICAL TECHNICIANS	113	253230
MEAT, POULTRY, FISH CUTTERS--HAND	778	939380
MECH CONTROL, VALVE INSTALLERS	526	859280
MECHANIC AND REPAIRER HELPERS	854	981000
MECHANIC AND REPAIRER HELPERS, NEC	855	981020



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MECHANICAL ENGINEERING TECHS	76	225110
MECHANICAL ENGINEERS	84	221350
MECHANICS, INSTALLERS, REPAIRERS	473	850000
MECHANICS, NEC	496	853990
MECHS, INSTALLERS, REPAIRERS, NEC	534	859990
MED, CLINICAL LAB ASSISTANTS	205	329050
MED, CLINICAL LAB TECHNOLOGISTS	204	329020
MEDICAL APPLIANCE MAKERS	649	899230
MEDICAL ASSISTANTS	407	660050
MEDICAL RECORDS TECHNICIANS	207	329110
MEDICAL SCIENTISTS	92	243110
MEDICINE, HEALTH SERVICES MGRS	11	150080
MENDERS, GARMENTS AND LINENS	533	859560
MERCH DISPLAYERS, WINDOW TRIMMERS	234	340440
MERCH, PRODUCTS AND OTHER SALES	259	490000
MESSENGERS	350	573110
METAL FABRICATING MACH SETTERS, OPS	672	917000
METAL FABRICATOR, STRUCT MET PRODS	677	917140
METAL MOLDING MACH OPS AND TENDERS	682	919110
METAL MOLDING, MACH SETTER, SET-UP	681	919080
METAL POURERS, CASTERS--BASIC	779	939410
METAL WORKERS, NEC--PRECISION	605	891990
METAL WORKERS, PRECISION	592	891000
METAL, PLAST MACH SETTERS, OPS NEC	693	921000
METAL, PLAST PROCESS MACH SETTERS	678	919000
METALLURGISTS, RELATED ENGINEERS	53	221050
METER READERS--UTILITIES	356	580140
MGRS AND ADMIN OCCUPATIONS	2	100000
MILLING MACH SETTERS--METAL, PLASTI	657	911110
MILLWRIGHTS	481	851230
MINE CUTTING, CHANNELING MACH OPS	587	879430
MINING ENGINEERS--INCL MINE SAFETY	54	221080
MINING MACHINE OPERATORS, NEC	588	879490
MINING, OIL AND GAS, RELATED MGRS	15	150210
MISC AG, FORESTRY, FISHING	449	790000
MISC HELPERS, LABORERS--HAND	871	989000
MISC HELPERS, LABORERS--HAND, NEC	874	989990
MISC INDUSTRY SPECIFIC CLERICAL	304	539000
MISC MECH, INSTALLERS, REPAIRERS	516	859000
MISC METAL, PLAST MACH SETTERS OPS	692	919990
MISC PERSONAL SERVICE OCCUPATIONS	424	680000
MISC PROFS, PARAPROFS, TECHNICAL	240	390000
MISC SECRETARIAL, GENL OFF OCCS	314	553000
MISC SERVICE WORKERS	439	690000
MISC TRANSPORTATION WORKERS	826	978000
MKTNG, ADV, PUB-REL MANAGERS	6	130110
MOBILE EQUIP MECHANICS, REPAIRERS	485	853000
MOBILE HEAVY EQUIP MECH--EX ENGINE	490	853140
MOLDERS AND CASTERS--HAND	780	939440
MOLDERS, SHAPERS--EX JEWELER	643	899050
MOTION PICTURE PROJECTIONISTS	730	929050
MOTOR VEHICLE OPERATORS	800	971000
MOTOR VEHICLE OPERATORS, NEC	807	971990
MOTORBOAT OPERATORS	820	975110



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTORCYCLE REPAIRERS	488	853080
MUNICIPAL CLERKS	298	537050
MUNICIPAL WORKERS	296	537000
MUSIC DIRECTORS, SINGERS, COMPOSERS	235	340470
MUSICAL INST REPAIRERS AND TUNERS	523	859210
MUSICIANS--INSTRUMENTAL	236	340510
NAT SCIENTISTS AND RELATED WORKERS	81	240000
NC TOOL, PROCESS PROGRAMMERS	104	251110
NEW ACCOUNTS CLERKS	277	531050
NONELECTROL PLATING MACH-OPS	687	919260
NONELECTROL PLATING MACH-SETTERS	686	919230
NUCLEAR ENGINEERS	57	221170
NUCLEAR MEDICINE TECHNOLOGISTS	208	329140
NUCLEAR TECHNICIANS	97	245080
NUMERICAL MACH TOOL OPS--MET, PLAS	669	915020
NURSE AIDES, ORDERLIES, ATTENDANTS	408	660080
NURSERY WORKERS	451	790050
NURSING INSTRUCTORS	144	311140
OCCUPATIONAL THERAPISTS	187	323050
OCCUPATIONAL THERAPY ASSISTANTS	414	660210
OCCUPATIONS NOT CLASSIFIED	875	AAAAA0
OFF MACH, CASH REGISTER SERVICERS	525	859260
OFFICE MACHINE OPERATORS, NEC	338	560990
OFFSET LITHOGRAPHIC PRESS SETTERS	704	925120
OIL PUMPERS--EXCEPT WELL HEAD	834	979080
OPERATING ENGINEERS	850	979560
OPS, SYS RESEARCHERS--EX COMPUTER	107	253020
OPTICAL GOODS WORKERS, PRECISION	647	899170
OPTICIANS--DISPENSING, MEASURING	198	325140
OPTOMETRISTS	180	321080
ORDER CLERKS--MATERIALS, SERVICE	321	553230
ORDER FILLERS--WHLE & RET SALES	360	580260
ORDINARY SEAMEN AND MARINE OILERS	822	975170
OTH SOCIAL SCIENCE RELATED WORKERS	120	273000
OTHER AG, FORESTRY, FISHING	457	790990
OTHER ELECTRICAL EQUIP MECHANICS	504	857000
OTHER HAND WORKERS	765	939000
OTHER HEALTH PROFS, PARAPROFS	203	329000
OTHER MANAGEMENT SUPPORT WORKERS	41	219000
OTHER PRECISION WORKERS	641	899000
OTHER PROF, PARAPROF, TECHNICAL	246	399990
OTHER TEACHERS AND INSTRUCTORS	158	313000
PACKAGING, FILLING MACH OPS, TNDRS	753	929740
PAINT, COAT & SPRAY MACH SETTERS	745	929510
PAINTERS AND RELATED WORKERS	552	874000
PAINTERS, PAPERHANGERS--CONST	553	874020
PAINTERS, TRANSPORTATION EQUIP	744	929470
PAINTING, COATING, DECORATING--HAN	781	939470
PAINTING, REL MACH OPS, TENDERS	746	929530
PAPER GOODS MACH SETTERS, SET-UP OP	733	929140
PARALEGAL PERSONNEL	137	283050
PARKING ENFORCEMENT OFFICERS	378	630210
PARKING LOT ATTENDANTS	829	978080
PASTE UP WORKERS	625	897060



## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PATTERN AND MODEL MAKERS--METAL	597	891140
PATTERN AND MODEL MAKERS--WOOD	607	893020
PATTERN MARKERS--WOOD	608	893050
PATTERNMAKERS AND LAYOUT WORKERS	614	895020
PATTERNMAKERS, MODEL MAKERS, LAYOU	644	899080
PAVING, TAMPING-EQUIP OPERATORS	566	877080
PAYROLL AND TIMEKEEPING CLERKS	327	553410
PERIPHERAL EDP EQUIPMENT OPERATORS	335	560140
PERS CLERKS--EX PAYROLL	318	553140
PERS, TRAINING, LAB-REL SPECS	36	215000
PERS, TRAINING, LAB-REL SPECS, NEC	40	215110
PERS, TRAINING, LABOR-REL MGRS	4	130050
PERSONAL AND HOME CARE AIDES	436	680350
PEST CONTROLLERS AND ASSISTANTS	421	670080
PETRO REFINERY, CONTROL PANEL OPS	791	950140
PETROLEUM ENGINEERS	55	221110
PETROLEUM PUMP SYSTEM OPERATORS	790	950110
PETROLEUM TECHNICIANS	98	245110
PHARMACISTS	199	325170
PHARMACY ASSISTANTS	416	660260
PHARMACY TECHNICIANS	200	325180
PHOTOENGRAVERS	628	897120
PHOTOENGRAVING, LITHO MACH OPS	714	925450
PHOTOENGRAVING, LITHO PHOTOGRAPHER	707	925210
PHOTOGRAPHERS	226	340230
PHOTOGRAPHIC PROC MACH OPS, TNDRS	731	929080
PHOTOGRAPHIC PROCESS WKR, PRECISION	646	899140
PHYSICAL SCIENCE TEACHERS, NEC	149	312090
PHYSICAL SCIENTISTS	82	241000
PHYSICAL SCIENTISTS, NEC	87	241990
PHYSICAL THERAPISTS	188	323080
PHYSICAL THERAPY ASSISTANTS & AIDE	411	660170
PHYSICAL, LIFE SCIENCE TECHS	94	245000
PHYSICAL, LIFE SCIENCE TECHS, NEC	99	245990
PHYSICIAN'S ASSISTANTS	197	325110
PHYSICIANS AND SURGEONS	178	321020
PHYSICISTS AND ASTRONOMERS	83	241020
PHYSICS TEACHERS	148	312060
PILE DRIVING OPERATORS	565	877050
PILOTS--SHIP	819	975080
PIPELAYERS	557	875080
PIPELAYING FITTERS	556	875050
PLANT AND SYSTEM OCCUPATIONS	786	950000
PLANT AND SYSTEM OPERATORS, NEC	798	950990
PLAST MOLDING, CASTING MACH SETTER	679	919020
PLASTERERS AND STUCCO MASONS	551	873170
PLASTIC MOLDING, CASTING MACH OPS	680	919050
PLATEMAKERS	632	897180
PLUMBERS AND RELATED WORKERS	554	875000
PLUMBERS, PIPEFITTERS, STEAMFITTER	555	875020
PODIATRISTS	181	321110
POLICE AND DETECTIVE SUPERVISORS	368	610050
POLICE DETECTIVES	375	630110
POLICE PATROL OFFICERS	376	630140



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PORTABLE MACHINE CUTTERS	775	939280
POST-SECONDARY TEACHERS	142	311000
POSTAL MAIL CARRIERS	348	573050
POSTAL SERVICE CLERKS	349	573080
POSTMASTERS, MAIL SUPERINTENDENTS	9	150020
POSTSECONDARY TEACHERS, NEC	157	312990
POWER DISTRIBUTORS AND DISPATCHERS	796	950280
POWER PLANT OPS--EX AUXILIARY EQUI	793	950210
POWER REACTOR OPERATORS	795	950260
POWERHOUSE, RELATED ELECTRICIANS	511	857210
PRESS MACH SETTERS--METAL, PLASTIC	662	913050
PRESSERS--DELICATE FABRICS	619	895170
PRESSERS--HAND	772	939210
PRESSING MACH OPS--TEXTILE, GARMEN	727	927280
PRINT PRESS SETTERS, SET-UP OPS	703	925100
PRINT PRESS SETTERS, SET-UP OPS NE	706	925190
PRINT REL SETTERS, SET-UP OPS, NEC	711	925290
PRINT, BINDING, REL MACH OPS, TNDR	716	925490
PRINTING PRESS MACHINE OPS, TENDER	713	925430
PRINTING WORKERS, NEC--PRECISION	635	897990
PRINTING WORKERS, PRECISION	622	897000
PRINTING, BINDING, RELATED WORKERS	702	925000
PROCUREMENT CLERKS	322	553260
PROD INSPECTORS, TESTERS, & GRADER	470	830050
PROD, CONST, OPER, MAT HANDLING	460	800000
PROD, PLANNING, EXPEDITING CLERKS	354	580080
PRODUCERS, DIRECTORS, ACTORS	238	340560
PRODUCTION OCCUPATIONS, PRECISION	591	890000
PROFESSIONAL, PARAPROF, TECHNICAL	22	200000
PROOFREADERS AND COPY MARKERS	307	539110
PROPERTY AND REAL ESTATE MANAGERS	12	150110
PROTECTIVE SERVICE OCCUPATIONS	371	630000
PROTECTIVE SERVICE WORKERS, NEC	388	630990
PSYCHIATRIC AIDES	410	660140
PSYCHIATRIC TECHNICIANS	215	329310
PSYCHOLOGISTS	118	271080
PUB ADMIN CHIEF EXECS, LEGISLATORS	19	190020
PUB REL SPECS, PUBLICITY WRITERS	221	340080
PUMP OPERATORS	849	979530
PUNCH MACH SETTERS--METAL, PLASTIC	661	913020
PURCH AGTS AND BUYERS--FARM PRODS	34	213050
PURCH AGTS--EX WHLE,RET,FARM PRODS	35	213080
PURCHASING AGENTS AND BUYERS	32	213000
PURCHASING MANAGERS	5	130080
RADIO MECHANICS	502	855140
RADIO OPERATORS	243	390080
RADIOLOGIC TECHNOLOGIST,THERAPEUTIC	209	329170
RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	210	329210
RAIL CAR REPAIRERS	491	853170
RAIL TRANSPORTATION WORKERS	808	973000
RAIL VEHICLE OPERATIVES, NEC	815	973990
RAIL YARD ENGINEERS AND RELATED	811	973080
RAIL-TRACK LAYING, MAINT EQUIP OPS	568	877140
RAILROAD BRAKE, SIGNAL, SWITCH OPS	814	973170



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
RAILROAD CONDUCTORS, YARDMASTERS	809	973020
RAILROAD, TRANSIT POLICE, SPEC AGTS	384	630380
REAL ESTATE CLERKS	308	539140
RECEPTIONISTS, INFORMATION CLERKS	316	553050
RECREATION WORKERS	125	273110
RECREATIONAL THERAPISTS	191	323170
REFRACTORY MATERIALS REPAIRERS	482	851260
REFUSE COLLECTORS	869	987050
REGISTERED NURSES	194	325020
REINFORCING METAL WORKERS	550	873140
RELIGIOUS WORKERS	126	275000
RELIGIOUS WORKERS, NEC	129	275990
REPORTERS AND CORRESPONDENTS	222	340110
RESERVATION, TRANS TICKET AGENTS	302	538050
RESIDENTIAL COUNSELORS	123	273070
RESPIRATORY CARE PRACTITIONERS	186	323020
RIGGERS	528	859350
ROASTING, BAKING MACH OPS--FOOD	735	929210
ROCK SPLITTERS, QUARRY	580	879080
ROLLING MACH SETTERS--METAL, PLAST	665	913140
ROOF BOLTERS	585	879230
ROOFERS	572	878080
ROTARY DRILL OPS--OIL, GAS EXTRACT	581	879110
ROUSTABOUTS	584	879210
SAFETY ENGINEERS--EXCEPT MINING	63	221320
SALES AGENTS--ADVERTISING	257	430230
SALES AGENTS--FINANCIAL SERVICES	254	430140
SALES AGENTS--REAL ESTATE	252	430080
SALES AGENTS--SEL BUS SERVICES	255	430170
SALES AGENTS--SERVICE	249	430000
SALES AGENTS, PLACERS--INSURANCE	250	430020
SALES AND RELATED OCCUPATIONS	247	400000
SALES AND RELATED WORKERS, NEC	271	499990
SALES ENGINEERS	260	490020
SALES REPS, NON-SCIENTIFIC EX RET	262	490080
SALES REPS, SCIENTIFIC--EX RETAIL	261	490050
SALES REPS, SERVICE--NEC	258	430990
SALESPERSONS - RETAIL(NON-VEHICLE)	264	490112
SALESPERSONS--PARTS	265	490140
SAW MACH TOOL SETTERS--METAL, PLAST	654	911020
SAWING MACH OPS AND TENDERS	699	923080
SAWING MACH SETTERS, SET-UP OPS	697	923020
SCANNER OPERATORS	630	897150
SCREEN PRINT MACH SETTERS, SET-UP	709	925240
SECRETARIAL, GENERAL OFFICE OCCS	309	550000
SECRETARIES	310	551000
SECRETARIES, GENERAL	313	551080
SECRETARIES, LEGAL	311	551020
SECRETARIES, MEDICAL	312	551050
SELECTED ROAD, RAIL AND RELATED	563	877000
SEPARATING, STILL MACH OPS, TNDRS	749	929620
SEPTIC TANK, SEWER PIPE SERVICERS	558	875110
SERVICE OCCUPATIONS	365	600000
SERVICE STATION ATTENDANTS	828	978050



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SERVICE UNIT OPERATORS	583	879170
SEWERS--HAND	773	939230
SEWING MACHINE OPERATORS--GARMENT	723	927170
SEWING MACHINE OPS--NON-GARMENT	724	927210
SHAMPOOERS	428	680110
SHEAR MACH SETTERS--METAL, PLASTIC	663	913080
SHEET METAL DUCT INSTALLERS	571	878050
SHEET METAL WORKERS	603	891320
SHERIFFS AND DEPUTY SHERIFFS	382	630320
SHIP ENGINEERS	823	975210
SHIPFITTERS	599	891210
SHOE AND LEATHER WKRS--PRECISION	617	895110
SHOE SEWING MACHINE OPS, TENDERS	725	927230
SHUTTLE CAR OPERATORS	843	979350
SIGNAL OR TRACK SWITCH MAINTAINERS	501	855110
SLAUGHTERERS AND BUTCHERS	637	898020
SMALL ENGINE SPECIALISTS	495	853280
SOCIAL SCI--INCL URBAN, REG PLNERS	115	271000
SOCIAL SCI, RECREATION, RELIGIOUS	114	270000
SOCIAL SCIENCE TEACHERS	150	312100
SOCIAL SCIENTISTS, NEC	119	271990
SOCIAL WKRS--EX MED, PSYCHIATRIC	122	273050
SOCIAL WORKERS--MED, PSYCHIATRIC	121	273020
SOLDERERS AND BRAZERS	771	939170
SOLDERING, BRAZING MACH OPS, TENDRS	676	917110
SOLDERING, BRAZING MACH SETTERS	675	917080
SPEC MATERL PRINTING MACH SETTERS	708	925220
SPECIAL AGENTS--INSURANCE	38	215050
SPEECH PATHOLOGISTS, AUDIOLOGISTS	190	323140
SPOTTERS--DRY CLEANING	618	895140
STATEMENT CLERKS	284	531260
STATION INSTALLERS--TELEPHONE	513	857260
STATIONARY ENGINEERS	797	950320
STATISTICAL CLERKS	323	553280
STATISTICIANS	109	253120
STENOGRAPHERS	315	553020
STEVEDORES--EX EQUIPMENT OPERATORS	868	987020
STOCK CLERKS--SALES FLOOR	267	490210
STOCK CLERKS--STOCKROOM, WAREHOUSE	359	580230
STONE MASONS	547	873050
STRIPPERS	631	897170
STRUCTURAL METAL WORKERS	574	878140
SUBWAY AND STREETCAR OPERATORS	813	973140
SURGICAL TECHNICIANS	214	329280
SURVEYING AND MAPPING SCIENTISTS	71	223110
SURVEYING AND MAPPING TECHS	79	225210
SWITCHBOARD OPERATORS	341	571020
SYSTEMS ANALYSTS--ELEC DATA PROC	102	251020
TANK CAR AND TRUCK LOADERS	833	979050
TAPERS	540	871110
TAX EXAMINERS, COLLECT, REV AGENTS	46	219140
TAX PREPARERS	28	211110
TAXI DRIVERS AND CHAUFFEURS	805	971140
TEACHERS AND INSTRUCTORS, NEC	167	313990



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
TEACHERS--ELEMENTARY SCHOOL	160	313050
TEACHERS--SECONDARY SCHOOL	161	313080
TEACHERS--SPECIAL EDUCATION	162	313110
TEACHERS--VOC ED AND TRAINING	163	313140
TEACHERS, EDUCATORS, LIBRARIANS	141	310000
TEACHERS, PRESCHOOL & KINDERGARTEN	159	313020
TECHNICAL ASSISTANTS--LIBRARY	170	315050
TECHNICAL WRITERS	220	340050
TELEGRAPH AND TELETYPE OPERATORS	344	571110
TELEGRAPH, TELETYPE INSTALLERS	500	855080
TELEMARKETERS, SOLICITORS & RELATE	269	490260
TELEPHONE, CABLE TV INSTALLERS	505	857020
TELLERS	276	531020
TEXT, APPAREL, FURNISHINGS, NEC--PREC	621	895990
TEXTILE BLEACHING, DYEING MACH OPS	722	927140
TEXTILE DRAW-OUT MACH OPS, TNDRS	721	927110
TEXTILE MACH SETTERS, SET-UP OPS	718	927020
TEXTILE OPS, TNDRS--WIND, TWIST, KNIT	719	927050
TEXTILE, APPAREL, FURNISHINGS, PREC	613	895000
TEXTILE, RELATED SETTERS, OPS	717	927000
THERAPISTS	185	323000
THERAPISTS, NEC	192	323990
TIMBER CUTTING AND LOGGING	443	730000
TIMBER CUTTING AND RELATED, NEC	448	730990
TIRE BUILDING MACHINE OPERATORS	732	929110
TIRE REPAIRERS AND CHANGERS	532	859530
TITLE EXAMINERS AND ABSTRACTORS	139	283110
TITLE SEARCHERS	138	283080
TOOL AND DIE MAKERS	593	891020
TOOL GRINDERS, FILERS, SHARPENERS	596	891110
TRAFFIC TECHNICIANS	242	390050
TRAFFIC, SHIPPING, RECEIVING CLKS	361	580280
TRANS AND RELATED WORKERS, NEC	830	978990
TRANS ATTENDANTS--EX FLIGHT	434	680280
TRANS, MAT MOVING EQUIP OPS, NEC	852	979990
TRANS, MATERIAL MOVING MACHINE OPS	799	970000
TRANSIT CLERKS	278	531080
TRANSPORTATION AGENTS	355	580110
TRANSPORTATION INSPECTORS	471	830080
TRAVEL AGENTS	256	430210
TRAVEL CLERKS	301	538020
TRUCK DRIVERS, HEAVY	801	971020
TRUCK DRIVERS, LIGHT	802	971050
TYPESETTING, COMPOSING MACH OPS	712	925410
TYPEISTS, INCLUDING WORD PROCESSING	317	553070
U.S. MARSHALLS	380	630260
UNDERGROUND MINE MACH MECHANICS	478	851170
UNDERWRITERS	25	211020
UPHOLSTERERS	616	895080
URBAN AND REGIONAL PLANNERS	117	271050
USHERS, LOBBY ATTENDANTS	431	680210
VEHICLE SALESPERSONS - RETAIL	263	490111
VEHICLE WASHERS, EQUIP CLEANERS	873	989050
VETERINARY ASSISTANTS	458	798060



# ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
VETERINARY TECHNICIANS	216	329510
VETS AND VETERINARY INSPECTORS	183	321140
VOCATIONAL & EDUCATIONAL COUNSELOR	173	315140
WAITERS AND WAITRESSES	392	650080
WARDROBE ATTENDANTS	435	680320
WATCH ASSEMBLERS, REL-PRECISION	763	931170
WATCHMAKERS	522	859170
WATER TRANSPORTATION WORKERS	816	975000
WATER TREATMENT PLANT OPERATORS	787	950020
WEIGHERS, MEASURERS-RECORDKEEPING	357	580170
WELDERS AND CUTTERS	770	939140
WELDING MACH OPERATORS AND TENDERS	674	917050
WELDING MACH SETTERS, SET-UP OPS	673	917020
WELFARE ELIG WORKERS, INTERVIEWERS	293	535020
WELL HEAD PUMPERS	835	979110
WHLE AND RET BUYERS--EX FARM PRODS	33	213020
WOOD MACHINISTS	609	893080
WOODWORK MACH OPS, TNDRS--EX SAWING	701	923140
WOODWORK MACH SETTERS--EX SAWING	700	923110
WOODWORKERS, NEC--PRECISION	612	893990
WOODWORKERS, PRECISION	606	893000
WOODWORKING MACH SETTERS, OPS	696	923000
WORKERS, PRECISION-NEC	651	899990
WRITERS AND EDITORS	219	340020
WRITERS, ARTISTS, ENTER, ATHLETES	218	340000





U.C. BERKELEY LIBRARIES



C124921500





Serving the People of California

State of California, Employment Development Department  
Labor Market Information Division  
300 South Spring Street, Room 8705, Los Angeles, CA 90013-1230

Official Business



U.S. OFFICIAL MAIL

PENALTY  
FOR  
PRIVATE  
USE \$300  
PB METER  
2311034

U.S. POSTAGE

1.21

CALIF STATE UNIV-BERKELEY  
INST OF GOVT STUDIES  
LIBRARY  
109 MOSES HALL  
BERKELEY CA 94720

**THIRD CLASS**